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Marliac Albida

Eugenia de Land

Glorioso

Sioux

Pink Opal

1933

# WATER LILIES

## *Ornamental fishes*

**OUR SHOW COLLECTION . . .** These five Hardy Lilies are pictured here by natural color photography direct from the plants. This assortment will make a blue ribbon display in any pool. Five of the choicest Hardy Lilies—very reasonably priced—in Collection, \$8.

HOOSIER AQUATIC GARDENS

# The HOOSIER AQUATIC GARDENS

**E**NORMOUS RESOURCES for supplying all the requirements of water gardeners at the greatest economy, distinguish a new service we have created for the thousands of home lovers who use or plan to use this most gratifying of gardening practice.

Through intimate associations with Grassyfork Fisheries, Inc.—the world's largest commercial Goldfish Hatcheries—we have acquired facilities for plant development and propagation not to be excelled in either extent or suitability. Nearly a thousand ponds provide more than 400 acres of water surface ideally adapted to the growing of vigorous plants from which we can supply your planting requirements for every variety of Water Garden.

And these enormous producing facilities are situated at the very center of population of the United States, affording the maximum economy in production and handling.

With such extensive resources for rendering you a fine service, we are confident you can ill afford to make your purchases without full knowledge of the values we give you. This catalog undertakes to present every bit of information you require in selecting and ordering all the usual requirements for the season. Should there be any question, or if you desire information about special plants or other requirements, it will be a pleasure to reply to any questions you ask.

And should you wish to come to see us, you will be cordially welcome to visit all of the properties used and see the work in progress there, which is interesting at all seasons of the year. It is a pleasant drive over a fine paved road, only twenty-five miles out of Indianapolis to these extensive and interesting properties.



A unique touch of loveliness comes to the grounds of this Iowa home from the delightful Lily Pool shown above. Border plants in charmingly informal plantings enriching its margins like some rare bit of lake shore cut out and carried home from adventurous wanderings. In such a spot you, too, may so easily have a cool, fragrant bit of water life touched with the clear, sharp flavor of tropics, of the Nile, of native land or many another clime.

We wish every customer of Hoosier Aquatic Gardens to enjoy the fullest satisfaction from each purchase. To this end, expert horticulturalists select every shipment we make, discarding all subnormal plants and tubers. Every plant we ship should become a fine specimen of its kind. If it does not, there is some fault in its soil bed. We will be pleased to assist you in overcoming any difficulties you may encounter, for water gardening is the easiest form of gardening and you should not have a failure.



## CONDITIONS OF SALE—SHIPPING INSTRUCTIONS

**TERMS:** Please send funds sufficient to cover price of goods ordered, 50 cents for shipping can when fish are included with the order and postage charges to the amount of 10% of your order when shipment is requested by parcel post. Payment may be made by check, draft, Post Office Money order, Express money order. When cash is sent the letter should be registered. We do not ship C. O. D. Order **EARLY:** Orders are shipped at the proper planting time for your locality in the order received. Early ordering will insure prompt delivery as soon as your planting season begins.

**CANADIAN SHIPMENTS:** Canadian customers must obtain a permit to import plants from the De-structive Insect and Pest Act Ad-vising Board, Dent. of Agriculture, Ottawa. **ENCLOSE PERMIT NUMBER ONLY.**

**FORWARDING:** We prefer to ship Express Collect. ALL FISH ORDERED must go by EXPRESS. Other items are shipped by Parcel Post only when specifically requested and funds to cover postage (see Terms) are included with remittance.

**Have You Gardening Friends Who Would Like a Copy of Our Catalog?**  
**We Shall Appreciate Their Names and Addresses.**

NAME \_\_\_\_\_

STREET \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_

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**CLAIMS: INSPECT YOUR ORDER BEFORE EXPRESS AGENT LEAVES.** If shipment is not in good condition, have him make out a bad order Report No. 679 and return it to us at once. All claims or complaints must be made within 10 days of accepting goods. We reserve the right to replace any merchandise considered unsatisfactory. We do NOT assume responsibility for goods after receipt in good condition. Due to conditions over which we have no control, unfavorable weather or soil, improper planting, etc., we cannot guarantee success after planting.

**ERRORS:** Experienced packers handle all your orders. In the press of business, however, errors may occur. In such case we wish to be promptly informed of the fact, that we may make such corrections as will be satisfactory. Please keep copies of all your orders for comparison.

**NAME and ADDRESS:** Please write on each order your NAME, POST OFFICE, COUNTY, and STATE, STREET, P. O. BOX or R. F. D. ROUTE; your nearest EXPRESS OFFICE.

Thank You.

**HOOSIER AQUATIC GARDENS**

Martinsville, Indiana.

# Bring the Beauties of the Lakes and the Tropics right into your Garden or Lawn

FEW VENTURES in home beautification are so easy and inexpensive of accomplishment, or so gratifying in results, as the avocation of Water Gardening, whether it be on an extremely simple or a very elaborate scale.

From tiny Tub Garden to elaborate formal Pool you can bring into your garden some of the gorgeous flowers and interesting aquatic life of lake and tropical waters. Delightful evening hours, fragrant with the romantic scent of tropical water flowers; a cool, restful spot for summer afternoons; a bewitching garden scene for all hours of the day reward the water gardener for slight expense and little work, either in establishing or maintaining his Pool.

The absence of disappointing failures is completely assured to the water gardener who properly plans his installation, and provides the simple cultural attention required. The merest novice may have his garden, small or large, displaying gorgeous blooms with a fraction of the effort required for other forms of gardening. Water Lilies, once planted, just grow. They bloom richly and abundantly and constantly, opening their flowers almost as soon as spring has reached high-tide, and continuing day and night until frost.

You will be delighted with the amazing results that can be accomplished in so short a period, and with so little effort.

The first step for the water gardener is to select the location for his Pool. The size of his Pool will be determined by the money he proposes to spend upon it, and the amount of ground available.

Turn to pages 4 and 5 of this catalog for com-

## *Georgeous blooms in abundance reward you in water gardening*

plete instructions concerning the making of the very inexpensive Tub Garden in which such magic can be worked—or to pages 6 and 7 for comprehensive instructions for planning and building larger gardens.

If you wish to plan still more elaborately, you will find on page 11 a list of books which will give extensive information for such enterprises.

When the size of your Pool is determined, that fixes the limit of planting it will support, the number of fish that are required to balance the Pool and ornament it, and the number and kinds of water scavengers desirable to keep the water clean.

Here the beginner may well be somewhat bewildered at first when he glimpses the tremendous variety of plants and fishes from which he must make his selections. In this catalog we offer you practically the whole range of desirable Water Lilies and decorative Water Plants to be found from the arctic circle to the tropics, and capable of propagation within the United States and similar climates.

For this reason we suggest throughout the catalog certain Collections of Lilies which grow and bloom harmoniously. Some Collections include other deco-

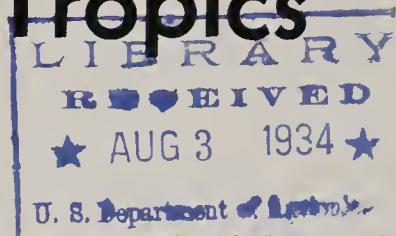
rative Water Plants, some include border plants, and some Fish. Some Collections are special complete selections for a Pool. Some are for large Pools, some for the smallest.

All these Collections are assortments of plants that produce pleasing results. We are certain you will be well pleased with any one that strikes your fancy. Some pages of this catalog are devoted to brief descriptions of the plants or other items listed in the various Collections we offer, and you will be able easily to find full descriptions of each item in any Collection.

Those with established Pools who wish to add other plants, or to provide plantings for enlarged Pools, may well desire to select individual plants.

Other advantages in ordering Collections are chiefly in savings, such as packing, which enable us to offer some price reductions over selection and handling of individual plants.

No form of gardening lends itself so fully to self-expression in design and management as Water Gardening, and we will take pleasure in serving our customers carefully and helpfully in supplying any requirements or information that will assist them to greater satisfaction and success with their projects. We believe you can scarcely find anywhere such complete facilities and such abundant stocks as we can provide for you.



●  
HOOSIER AQUATIC GARDENS  
Martinsville, Indiana



AURORA (first day)

AURAL COLLECTION—Aurora flowers are amber-yellow the first day, red-orange the second day, and a deep red the third day, as this natural color photograph shows, adding variety to their beauty in blooming. Chrysanthia, too, changes remarkably

AURORA (third day)

as it opens day after day, from a creamy yellow to a deep orange vermillion. Two varieties of semi-dwarf growing habit exceptionally suited to the small Pool or Tub Garden—miniature blooms in abundance all season. Two unusual lilies—in Collection, \$2.75.

CHRYSANTHA

# Tub Gardens Costing as Little duce lovely flowers all summer

why forego the pleasure of having these gorgeous flowers in your own garden because you have no Pool, when they grow so well and beautifully in such a simple container?

THERE is no easier, more economical, yet satisfactory way of having a Water Garden than that provided by the use of a wooden tub. Such a container is easily obtained. Yet we make the starting of a Tub Garden even more simple by sending a rot-resisting White Cedar tub with our Tub Garden Collection of plants. And your Tub Garden will become a most attractive and interesting spot whether in a small rear yard, a large garden, a front lawn, or even an apartment roof. Any nook or corner of the grounds is suitable for a Tub Garden provided only that it gets

a little sunshine. Then there are the fish! A Tub Garden can be made a most interesting little fish pond, not only for the commoner kinds but also for the most fancy varieties of Goldfish and all types of Toy Tropical Fishes. Goldfish and Toy Tropicals may be kept, and even young fishes raised very successfully in a Tub Garden.

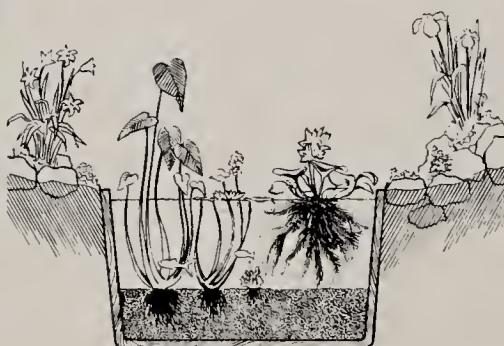
Be sure to add a few Goldfish or Toy Tropicals to your Tub Garden, not only for their attractiveness, but also for their practical value in destroying insect life in the Pool.

## MAKING A TUB GARDEN

The arrangement of the Tub Garden is largely a matter of one's own taste. The tub may be left exposed, setting on the lawn or in the garden. We suggest that an excavation be made large enough to contain the tub. Sink the tub six inches below ground level (see

sketch below) and place stones about, among which hardy border perennials may be planted. When the tub is set, fill about half full of good garden soil firmed well down, cover over with a one-inch layer of clean sand and fill with water.

The Tub Garden is ready now for planting. Press the Water Lily root well into the soil. Should there be a tendency for the root to float, weight with a flat stone until it has rooted in the new soil. However, if the soil is well firmed in the bottom of the tub before water is run in, roots will rarely float upon planting. Submerged Plants should be planted directly in the bottom of the tub; Floating Plants dropped on the surface of the water, and Shallow Water and Bog Plants planted directly in the bottom, or in pots which may be placed on top of the soil in the tub. After all planting is done, introduce the fish, snails, tadpoles, etc.



# as \$3.50 Complete will pro-

And one may always elaborate, having two, three, or more tubs pleasingly arranged to form quite an extensive yet comparatively inexpensive Water Garden.

## TUB GARDEN \$5 COLLECTION

- 1 *Water Lily*—Choice of Light Pink, Dark Pink, Red, Yellow, Blue or White, or Red and Yellow Changeable.
- 1 *White Cedar Tub*—2 ft. in diameter, 1 ft. deep, White Cedar staves, electrically welded hoops.
- 6 *Water Plants*—An assortment of Floating, Submerged and Shallow Water or Bog Plants for planting in the Tub.
- 6 *Perennial Plants*—Your choice of taller growing Perennials or Dwarf Rock Garden varieties.
- 1 *Pair Japanese Livebearing Snails*—To keep the water clear.
- 1 *Pair Goldfish*—Useful and ornamental.
- 1 *Fish Bucket*.

## GOLDFISH, SNAILS, AND TROPICALS IN THE TUB GARDEN

The Tub Garden or Pool is an ideal summer home for the Fish and Snails in your aquarium. Being under more natural conditions, both Fish and Snails will greatly increase their numbers throughout the summer. Then, in the fall, the best specimens can be taken indoors to the aquarium and the poorer ones either left in the Tub or Pool or put in a tank in the basement.

Goldfish, Snails, and Toy Tropical Fish not only add that touch of motion to the Water Garden, but also serve a very useful purpose. The Goldfish and Toy Tropicals destroy any insect life in the pool and the Snails aid in keeping the water pure and crystal clear. The Tub Garden should not be without at least a few of each.

## EXTRA TUBS

We can supply tubs similar to those offered in a Tub Garden Collection—White Cedar, galvanized hoops electrically welded, 2 feet diameter, 1 foot deep. Ideal for a small Water Garden or Fish Pond; or as containers for Lilies, Lotus or Victorias in the \$2 large pool. Each.....

**\$2**

## FISH FANCIERS

You will surely need a few extra tubs for those young fish you will raise this season. Why not get them now? Each.....

**\$2**

## FISH AND SCAVENGER COL- LECTIONS FOR TUB OR SMALL WATER GARDEN

- 2 pair Goldfish (2½-inch); 1 pair Comets (2½-inch); 1 pair Japanese Snails; 6 Black Ramshorn Snails; 6 Tadpoles; 1 pair Green Frogs. In Collection.....
- 1 pair Rainbow Fish (Guppy); 1 pair American Flag Fish (Jordanella Floridae); 1 pair Mosquito Fish (Heterandria Formosa); or 1 pair Gambusia; 1 pair Japanese Snails; 6 Black Ramshorn Snails. In Collection.....

**\$1.75**

## MINIATURE GARDEN COLLECTION

- 1 *Water Lily*—Your choice of Red, Dark Pink, Light Pink, White, Blue, Yellow, Red and Yellow changeable.
- 6 *Water Plants*—To include Floating, Submerged and Shallow Water or Bog Plants.
- 6 *Perennial Plants*—Dwarf Rock Garden varieties or taller Perennials; your choice.
- 1 *Pair Japanese Livebearing Snails*—To keep the water clear.
- 1 *Pair Goldfish*—Useful and ornamental.
- 1 *Fish Bucket*.

**ALL ONLY \$3.50**



GRAZIELLA

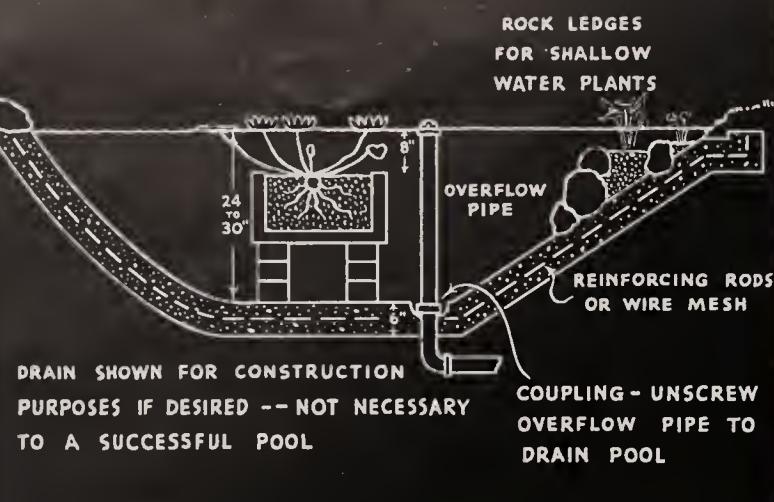
IDEAL TRIO—It would be difficult to select three Hardy Lilies which, for general excellence, would surpass our Ideal Trio Collection. Graziella and Lucida are two of the newer and rarer hybrids we offer at collection prices because of our exten-

ROSE AREY

LUCIDA

sive growing facilities and large stocks. Rose Arey, an older variety, is included in the assortment due to its very excellent all-round qualities and because it continues to be one of the most popular of the Hardy Lilies. Ideal Trio Collection, \$5.50.

# How to Build and Care



The INFORMAL POOL is shown in cross section in the drawing above, which illustrates sound construction methods. Inlet and overflow connections are not necessary unless you want a fountain or running water, but are always convenient.

**THE INFORMAL POOLS . . .** The most popular and inexpensive type of pool, and the one affording opportunities for the builder to exercise his own tastes in design, is the informal, or irregularly shaped Pool. FIRST, stake out and mark with twine the OUTSIDE limits of your Pool. Excavate the center 30 inches deep, then slope the sides at about 45 degrees toward the center excavation, following the twine marking, letting the bottom be perfectly flat and as large as the size of the Pool naturally makes it with these sloping walls. Tamp sides and bottom well. Mix a stiff concrete with 1 part good cement, 2 parts clean sharp sand and 3 parts  $\frac{1}{2}$ " to  $\frac{3}{4}$ " gravel or cracked stone. Mix thoroughly while dry and add water just sufficient to make a thick mixture that will lie on the sloping walls. Plaster the walls of the excavation from the bottom to the top with 2 to 3 inches of this concrete. Immediately place wire mesh over the concrete, taking care to overlap the mesh on bottom and sides by 4 to 6 inches. Be sure the mesh is large enough to permit all gravel or stone pieces to pass through freely. Cove the mesh with another 2 to 3 inches of concrete, tamping smooth and then smoothing surface with trowel or block of wood. Cover with building paper or damp hay or straw for 12 hours. Apply a thick paste

POOLS for water gardening may take many forms and sizes, but all of them should, first of all, be located where they receive plenty of sunshine. Construction of Pools larger than the Tub Garden may, when soil conditions permit, be as simple as merely scooping out a pond-like area in the ground. The soil must be of such a character as to hold water well. Some soils not quite sufficient for this may be made so by lining the scraped-out pool with a layer of well-tamped clay.

Usually lawn and garden conditions will require the construction of a concrete basin for the Pool, which will, according to your own preference, take on an informal arrangement resembling the natural pond as to shape, or a formal arrangement in round, rectangular or square shape with straight walls.

All larger Pools should be 24 to 30 inches in depth. This depth allows the use of 8 to 12 inches of good soil in the bottom and a sufficient depth of water for growing purposes and adequate winter protection. If preferred large pots, boxes or tubs may be used as containers for soil instead of covering the entire bottom of the Pool, which helps keep the pool water clear, and has the further advantage of containing individual plants and preventing overcrowding. Also soil in containers is easily fertilized, which is important for vigorous growth. The Pool may well be designed to duplicate on a small scale the conditions of lake and pond shores, giving water depths from 2 to 10 inches where plantings of shallow water growths are desired.

of cement and water, painting it on with broom or whitewash brush. Recover the work and let it stand for 48 hours. Remove covering, fill with water and soak for 2 or 3 days. Empty, stirring water constantly to wash out all sediment. The Pool is then ready for use.

It is not necessary to provide drainage for Pools, and a large Pool without drainage may, instead of being filled and drained, be washed out thoroughly with a strong fine stream from a hose while brushing sides thoroughly with a stiff broom. Bail out the water and carefully sweep up and remove all sediment remaining.

**THE FORMAL POOLS . . .** Rectangular, square or round Pools with vertical sides are used for formal arrangements of the Water Garden. These may be built in any soil by excavating the desired space and building forms for the side walls. These forms may be of wood, steel or of galvanized iron sheeting, reinforced with wood. Wood forms should be wetted before pouring concrete; metal forms wiped with oil or grease. Ledges and other elaborations of construction, if desired, must, of course, be provided for in building the forms. It is good construction practice to make the inside form six inches short of the bottom of the out-

side form so that, when pouring the concrete for the walls, it will flow out inside and form a lip into which the bottom concrete can bind and seal the joint all around. Of course the bottom must be poured before the outflowing concrete from the wall forms has set. Smooth finished walls as described above and paint with cement paste. Reinforcing of the concrete in walls and bottom with wire mesh as described above, or with light reinforcing steel, is desirable to avoid possibility of cracking from frost.

The labor and expense of building forms may be dispensed with in firm soil by excavating at first only the width of the walls and using the trench thus cut for forms. Firm soil carefully cut and smoothed will give a smooth inner wall. After the walls have set in this procedure excavate the interior and construct the bottom, taking care to seal the joint between bottom and side walls carefully to prevent leakage. A paste of pure cement and water should be painted over the joint between bottom and sides when the finish surface is applied.

**SIDE WALLS** should be at least six inches thick and bottoms may be 4 to 6 inches thick. Many finishing treatments for the top edges and borders of formal Pools are possible and should be decided upon before construction is started. Brick trim

# for Pools of all Sizes

should, of course, be set in place as soon as the walls have been poured so that it will set thoroughly in the concrete.

DRAINS and overflow drains will be necessary when a fountain or running water is provided. Otherwise the Pool may well be filled as required by a hose, and if well balanced as to aquatic life running water and drains are not at all necessary. BORDERS for Pools, whether formal or informal in design, offer many opportunities for ingenuity on the part of the builder, more especially in the case of the informal Pool arrangements. Plans for Pool construction should cover this important feature. In informal Pool arrangements stones or bricks may

# CULTURAL DIRECTIONS FOR WATER GARDENING

We shall be pleased to assist in any matter pertaining to the growing of Water Lilies and other aquatics; selection, arrangement and care of plants in the Pool, and in any other matter with regard to water gardening in which we can be of service.

**WHEN TO PLANT:** Hardy Lilies may be planted any time after growth begins in the spring; and as late in the fall as will let them become established, generally about six weeks, before real cold weather sets in. Tropical Lilies may be planted any time after settled weather is assured; usually after May 20th in the latitude of Chicago. Plantings farther south may be made much earlier. We ship at the proper planting time for the locality in which the planting is to be made. We also ship at any time, on request. Tropical Lilies may be grown and flowered continually for many years in a greenhouse, conservatory, or sun room pool simply by giving the proper temperatures and additions of fresh soil occasionally. Tropical Lilies planted out too early in cold water; or in water that is too deep for young plants (over 12 inches) or in a heavily shaded pool tend to go dormant. When this happens the plant is not dead; and by placing root in warm sunny water growth will recommence. It is to avoid this unnecessary delay in growth that we advise against too early planting. For greatest number of blooms throughout the season only 8 to 12 inches of water should be allowed over the crowns. When plants are received set out in shallow water; then fill up the pool as the plants commence to grow. For best results the pool should be exposed to full sunlight.

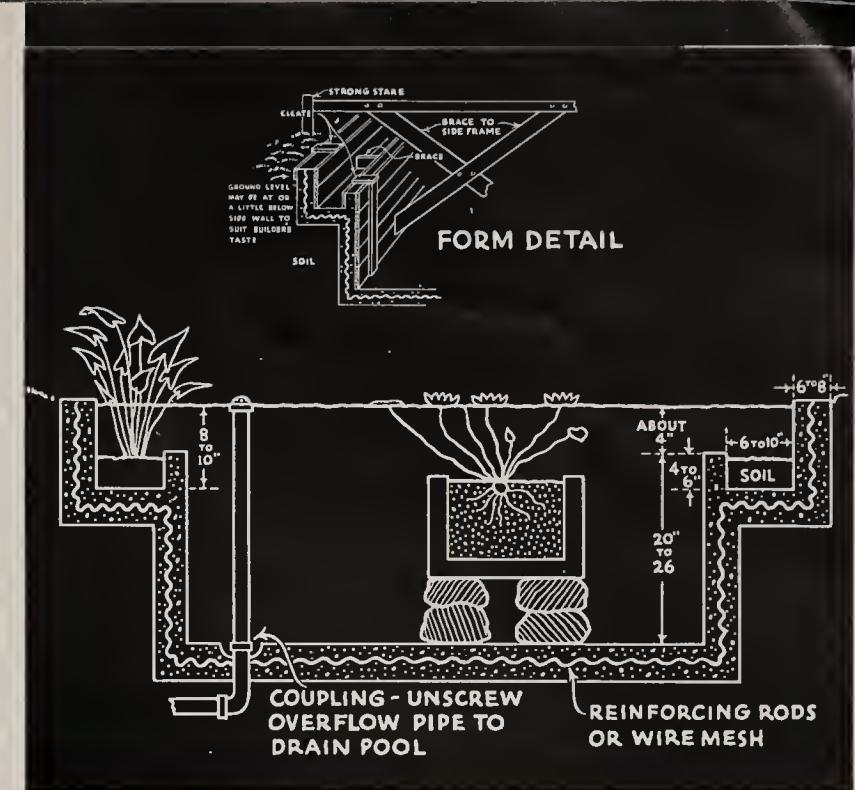
well be pressed into the fresh concrete along the sides, near the top, to form pockets or ledges for planting shallow water and Bog plants. Arrange these pockets or ledges so that the soil placed in them will give water depths of from 2 to 10 inches to provide for the various types of Shallow Water and Bog Plants. In general it may be said that the informal Pool should provide approximately for all the various conditions of water depth and soil to be found naturally at the shore lines of fresh water ponds and lakes.

**HOW TO PLANT:** The root of the Hardy Lilies should be pressed into the mud so that the growing tip is covered. Should the roots

**HOW TO PLANT:** The root of the Hardy Lilies should be pressed into the mud so that the growing tip is covered. Should the roots float after planting, weight with a stone until the new feeding roots have caught hold. If the bottom is very hard or stony, plant lily roots in light holders filled with good heavy loam to which one-fourth cow manure has been added and sink in the desired spot. For most blooms water depth should not exceed two feet in summer, but be careful to select a spot well covered by water in winter. The winter depth is unimportant; the deeper the safer. Hardy Water Lilies will bloom in 3 to 5 feet of water but not so profusely. Tropical Lilies may also be planted in natural ponds and lakes provided a very shallow spot in selected (8 to 10 inches deep), and the pond or lake maintains a fairly high temperature all summer (at least 65 degrees). Water Lilies of any variety, for best results, should not be planted near a cold inlet nor in swiftly moving water. In fertilizing natural ponds cow manure may be layered on the ice to a depth of one inch or more. It will become water-logged in spring and sink. Bone meal may also be used in a like manner. Apply at the rate of one pound per square foot.

Containers for planting in constructed Pools may be anything from a large flower pot, a plant tub, or a box one foot square and six inches deep, to a tub two feet in diameter and a foot deep, or a box two feet square and eight inches to a foot deep. The larger the container, the greater the amount of soil given the plant, therefore more and larger blooms will result. Allow each Water Lily 8 to 12 square feet of water surface.

The soil, whether placed directly in the Pool or in containers, should be a good, heavy, garden loam. The addition of one part *well rotted* cow manure to every four parts of soil will prove beneficial. A mild commercial fertilizer may be used, or a mix-



The FORMAL POOL, with symmetrical outlines and straight sides instead of sloping is diagrammed above for the guidance of those constructing them. The illustration shows ideal plans with ledges for shallow plants which may be modified for convenience or economy as discussed in the detailed descriptions on these pages.

ture of blood and bone meal (one quart dry measure per bushel of soil).

Water Lilies once started into growth are heavy feeders. Their roots spread out and feed laterally. It is advisable to drain the Pool every two to three years and replace all soil with fresh material, or at least top dress the soil by cutting off two or three inches and replacing with fresh soil, or fork in rotted cow manure or a commercial fertilizer, taking care not to injure the crowns.

Where containers are used, remove, empty, refill with fresh soil; reset the crown and return the container to its place.

An easy way of fertilizing is to place as much well rotted cow manure or mild commercial fertilizer in a paper bag as can easily be held in one hand. Press the bag into the soil near the Lily crown. The bag will disintegrate, allowing the fertilizer to incorporate itself with the soil. This method of fertilizing may be used for small quantities of fertilizer during the flowering season on any plants showing a tendency to fall off on flower production. This method is an excellent way of fertilizing Tub Gardens and other small containers.

Tamp all soil, whether directly in the Pool or in containers, cover with one-inch layer of clean sand, and tamp sand. This prevents soil being stirred up and discoloring the water.



### ALBIDA

In the natural color photograph above we show the late September blooms of our plants, from which you may gain some idea of the splendid flowering to be expected in your Water Garden. These Hardy Water Lilies are the widely known and deservedly

### CHROMATELLA

popular Marliac Trio—the yellow, white and pink Marliacs. Our northern grown plants are vigorous and hardy, giving maximum assurance of sturdy and free-flowering growth in your Pond. Our price for this fine MARLIAC TRIO, in collection, only.....

### ROSEA

\$3.50

# The Hardy Water Lilies

HARDY LILIES are unexcelled for planting in natural ponds, lakes or in still pools along a river or stream-bank, and will beautify the most unattractive bit of water, provided they are not planted in too deep water or near a cold inlet. (See Cultural Directions.) Once established so that the crowns may not be injured by freezing or ice, they become a source of permanent beauty. They may be grown in the smallest of pools and in tubs.

With Hardy Lilies, the hybridist has obtained excellent results in color, quality, size, symmetry, and fragrance of flowers, and growing qualities of the plants. The flowers embrace all the colors from purest white, delicate shell-pink, deep rose-pink to richest reds; yellows, and combinations of red and yellow. There is, however, no blue Hardy Lily. For this color one must go to the Tropical Lilies. Another contrast between Tropical and Hardy Lilies is that the blooms of the former are borne on stems well above the water, whereas those of the latter float or are raised only slightly.

Hardy Lilies may be planted any time from the start of growth in spring (about April 1) until the last week of August. It is inadvisable to attempt planting before or after these dates. The following varieties, both recent introductions and old standard sorts, we consider the best for results. For the convenience of our friends we list these varieties by color, rather than by alphabetical arrangement. Our Lilies are Northern grown and therefore exceptionally hardy. No risk of disappointments in wintering over these Hardy Lilies.

## DESCRIPTIONS OF HARDY WATER LILIES

### YELLOW LILIES

MARLIAC YELLOW (*Chromatella*)—Bright, chrome-yellow flowers. Leaves rich green, splotched bronze-red. Of compact habit, vigorous, and very free flowering. Ideal for Pool or Tub Garden. \$1.50.

SUNRISE—Beautiful sulphur yellow flowers of large size borne slightly above the water; produced freely from early season until frost. \$4.

ODORATA SULPHUREA GRANDIFLORA—Not the common Sulphurea but the True Improved Sulphurea Grandiflora. \$3.50.

MEXICANA—A free, continuous bloomer having bright canary-yellow flowers 4 to 5

inches across. Leaves small, splotched with brown. \$1.

PYGMY YELLOW (*Helvola*)—Tiny, floating, light canary-yellow flowers in abundance. Adaptable to Tub Gardens or the shallow water along the edge of Pools. \$1.

### WHITE LILIES

MARLIAC WHITE (*Albida*)—Richly fragrant broad-petaled flowers of a pure, waxy white with bright yellow stamens; continuous bloom. \$1.25.

LOOSE—Flowers, opening very early in the morning, are large, very fragrant, and produced continuously. \$1.50.

# ... Ideal for Pool, Pond or Lake

GLADSTONE—Large, pure-white, globular flowers. A strong, vigorous grower inclined to hold both leaves and flowers above water when crowded. \$1.50.

PYGMY ALBA—Native of China. Delicate, tea-scented, white flowers. \$1.50.

ODORATA—The Common White Pond Lily, very good for natural plantings. \$0.75 for three; \$2.50 a dozen.

ODORATA GIGANTEA (*Hopatcong*)—Flowers larger than Odorata. Unexcelled for naturalizing in ponds and lakes. \$0.50 each; \$5 a dozen.

ALBA CANDIDISSIMA. A free and continuous-flowering variety. Large, pure white blooms float among the deep green pads. \$1.

ODORATA MINOR—Excellent for planting along the edge of pools or in tubs. Tiny, fragrant, white lilies 2 to 3 inches across. \$0.75.

## PINK LILIES

ROSE AREY—Very free flowering and a strong grower. The flowers are very large, being eight or more inches across, fragrant, with long-pointed petals. A word picture falls short in describing the deep uniform pink color of this most satisfactory variety. One must see it growing and flowering to appreciate fully its merit. \$2.00.

EUGENIA DE LAND—A vigorous and free-flowering variety of Odorata type. Flowers large, floating, of a deep rose-pink; petals long, pointed. \$1.50.

MARLIAC FLESH (*M. Carnea*)—Large, full-petaled flowers of a beautiful flesh-pink. Plant very vigorous, foliage bronze-green. \$1.25.

MARLIAC ROSE (*M. Rosea*)—Fragrant, cup-shaped flowers, of deep rose. Free flowering and of good size. \$1.50.

HELEN FOWLER—Very adaptable to Tub Gardens. Deep pink flowers of medium size borne above the water. \$1.25.

PINK OPAL—Full-petaled cup-shaped flowers of a deep, rich pink. Foliage, reddish-green. \$1.50.

W. B. SHAW—Immense, very fragrant blooms. Petals light pink shading to rose at base. A strong growing and continuous flowering variety. \$1.50.

MARY—An ideal Tub Garden or small Pool variety. Flowers a rich rose-carmine. \$1.

SOMPTUOSA—An enormous, very full-petaled, fragrant flower; petals rose-pink; stamens deep orange. Strong growing and free flowering. \$3.

NEPTUNE—Exceptionally free flowering. Broad, pink petals flushed with red at the base. A very attractive variety. \$3.50.

MASANIELLO—Large, fragrant flowers borne above the water. Petals rounded, pink dotted carmine. \$2.

ODORATA ROSEA—The well-known Cape Cod Pink Water Lily. Fragrant flowers of good size. \$1.

WILLIAM DOOGUE—Large flowers of a delicate shell pink, slightly cup-shaped. \$2.50.

ROSE MAGNOLIA—Ideal for naturalizing. Light, flesh-pink flowers, borne slightly above the water. \$1.

## RED LILIES

GLORIOSA—One of the best. Flowers a beautiful clear red, deepening to dark red; full-petaled; very symmetrical and fragrant. Adaptable to Pool or Tub Gardens. Blooms continuously. \$3.50.

ATTRACTION—An immense flower, remarkably bright red in color and very free in bloom. We have counted fifty blossoms on a single box of them. \$4.50.

CONQUEROR—An immense flower; the bright red petals shaded with white on the inside change to deep red as the flower ages. Strong plants producing a wealth of bloom. \$3.50.

ESCARBOUCLE—Flowers an intense vermillion-red deepening on succeeding days; stamens garnet. Strong growing; should be included in every collection. \$4.

JAMES BRYDON—Handsome bronze-red foliage and large, cup-shaped flowers whose broad petals are an unique rose-crimson. An exceptional variety. \$3.

LUCIDA—Large flowers of a rich, warm red; petals long, pointed; stamens red-orange. Foliage green splotched maroon. Free flowering. \$3.

ROBINSONI—Leaves spotted maroon and deep red on under side. Flowers a violet red with slight orange suffusion; stamens red-orange. Makes a vivid contrast. \$2.50.

SULTAN—Large flowers of a striking shade of red. Petals shade from light to deep red at base. Blooms continuously. \$5.

## RED AND YELLOW LILIES

COMANCHE—The hardiest of all cultivated lilies. Large flowers of rich apricot with glowing red markings deepening to copper orange; olive green foliage flaked brown. Vigorous and free blooming. \$3.

AURORA—Very free flowering, of semi-dwarf habit suitable for small Pools or Tub Gardens. Flowers amber-yellow, shading to red-orange on the second day and then deep red. \$1.25.

SIOUX—Flowers a rich copper-yellow of good size; petals long, pointed, and tinged red along the sides. Flowers and central foliage raised slightly above the water. \$3.

INDIANA—A free growing variety bearing beautiful copper-yellow flowers tinged pink, deepening to copper-red on succeeding days. A remarkable plant producing a constant succession of color changes in its freely produced flowers. \$2.

PAUL HARIOT—Cup-shaped blooms of a delicate light yellow suffused with pink. Colors deepen on succeeding days to yellow and copper-red. Mottled foliage. \$2.

CHRYSANTHA—Medium-sized flowers changing from amber-yellow to deep yellow-vermilion; stamens fiery orange. The plant is compact-growing, semi-dwarf in habit, making it an excellent variety for small pools or tub. \$2.

GRAZIELLA—Charming orange-pink flowers shading to a fine orange-red with age. A splendid variety for the Tub Garden and one you will enjoy for its unique color and pretty cupped form. \$1.50.

## QUICK, EASY, ECONOMICAL pool for two lilies and many other plants and fish

If you are considering having a small Water Garden this season by all means save yourself time, labor and money by installing one of our new pool-aquarium combination Galva-Tanks. The only tool required to construct this delightful little pool is a spade, and the only time and labor a few minutes to excavate one-half yard of soil to sink the tank to ground level. A more pleasing effect will be gained if the tank is sunk six inches below the surface level and the ground tapered back permitting rock and dwarf border perennials (see page 15) to be planted around the edges.

Our new tank offers you all of the best features of the regular cement pool without the labor or expense of such installation. With the Galva-Tank you can install your Pool, plant it, and begin enjoying your Water Garden plants and fishes within a few days after receipt. With the exception of the Tub Garden (see pages 4-5) which makes a very tiny Water Garden accommodating only one Water Lily, the Galva-Tank Pool is the easiest, simplest and most economical way of having a complete Water Garden.

The Galva-Tank may also be used as a first class winter tank or aquarium, by moving it to the basement. It is equipped with a drain and overflow stand pipe should you wish to accommodate Goldfish. To drain attach hose to outlet and drain to basement sump. You will be delighted with the economy and simplicity of this new equipment offered for the first time.

THE GALVA-TANK—Guaranteed leak-proof—constructed of heavy galvanized sheet metal with lapped sealed joints securely riveted. Equipped with one-inch drain and overflow pipe. Shipped via freight on receipt of order. Shipping weight 65 lbs. Price, tank only.....

\$5

## GALVA-TANK COLLECTION

- \*1 Guaranteed Leak-Proof Galva-Tank.
- 1 Aural Collection Water Lilies  
(see color illustration, page 4).
- 16 Select Goldfish (12 Comets, 2 Japanese Fantails, 2 Shubunkins).
- 1 Small Pool Collection of Scavengers.
- 9 Perennial Plants assorted. 1 Fish Bucket.
- 12 Water Plants assorted. ALL \$14.50  
1 Net, 6 inches.
- 1 Box (1 lb.) Fish Food.

\*(Tank shipped by freight on receipt of order. Plants and fish shipped at proper planting time.)



From a sloping background profusely planted, a fairy-like water-fall feeds this enchanting Pool where huge Lilies float, showing what the ingenious water gardener can accomplish.



An Informal Pool provides in its boulder-strewn margin a natural home for border and rock plants, and a fine dense growth of Water Lilies within its borders.

### STAR LILIES

Star Lilies are very sturdy, easy to grow, and give a wealth of medium-sized flowers in a season. The long, pointed petals give the bloom a starry appearance; and their delightful fragrance, brilliant colors, and exceptional qualities as a cut flower make them a valuable addition to the Water Garden.

Star Lilies, \$2 each

Blue Star, Rose Star, Purple Star

One each of three colors, collection **4.75**

# Tropical Water Lilies

. . . the unrivaled leaders of the Water Garden . . . Brilliant colors . . . delightful fragrance . . . immense size . . . continuous bloom

TROPICAL LILIES provide twenty-four hours of continuous bloom each day from settled weather in spring until late fall. They adapt themselves to the largest Pools or the smallest Tub Gardens, size of flower alone

being affected, this depending on the amount of soil and water surface provided. We ship only matured, potted plants, many already in flower, which produce fully developed plants giving a wealth of bloom in a surprisingly short time after setting out. They are the unrivaled leaders of the Water Garden, and unexcelled for cutting, the flowers being borne on good stems above the water in contrast to the Hardy Lilies, which float.

For brilliant color, delightful fragrance, immense size, and continuous bloom, plant Tropical Lilies.

Tropical Lilies are of two distinct types: the Dayblooming Lilies, whose flowers open with the sun and close at evening, and the Nightblooming Lilies, whose flowers open in the afternoon and remain open until late the following morning. Tropical Lilies are best adapted to artificial Pools, giving better and quicker results than do the Hardy Lilies.

For constant succession of bloom the Tropical Lilies are unexcelled, and they may be grown in tubs or the largest Pools. For specimen plants, set out in boxes 18 inches to 2 feet square and a foot deep. Submerge 8 to 10 inches, and allow from 8 to 20 square feet of water-surface.

Tropical Water Lilies are potted and grown in our greenhouse pools. They may be set out when settled weather is assured, which, in the latitude of Chicago, is about the end of May. The growth is very rapid, producing fully developed plants in a surprisingly short time.

### DESCRIPTIONS OF DAY-FLOWERING VARIETIES

#### WHITE LILIES

MRS. GEORGE H. PRING—The best pure white Tropical Lily. Flowers very fragrant, 8 to 10 inches; long pointed petals and sepals; golden-yellow stamens, borne in abundance all season. Produces equally well in scant

or ample quarters; size of flower alone affected. \$2.

GRACILIS—Flowers a cream-white; of medium size; on good stems well above the water; fragrant. \$1.75.

JANICE—A pure white flower of medium size; plant of compact habit bearing young plants on the leaves. \$3.

## PINK LILIES

MRS. ROBT. SAWYER—Plant sturdy, producing young plants on the leaves; flowers in abundance; gorgeous, full-petaled, and of a delightful shade of pink. \$3.  
ZANZ. ROSEA—Flowers rose-pink of good size, bell shaped, and produced very freely. Adaptable to any size Pool or to Tub Gardens. \$1.50.

GENERAL PERSHING—Broad, chalice-shaped flowers of a clear pink, delightfully fragrant. Foliage beautifully mottled. \$3.50.

STELLA GURNEY—Flower full-petaled; fragrant, freely produced and of a light rose-pink. Borne on good stems well above the water. \$2.

GRACILIS ROSEA—A deep rose-pink seedling of Gracilis. \$2.

MRS. C. W. WARD—Beautiful large flowers of a deep rose-pink on good stems. Petals and sepals long, pointed. Flowers produced very freely. \$2.

## PURPLE LILIES

ZANZIBARIENSIS—The native African purple lily. Flowers 6-8 inches, very fragrant, showy, and freely produced. \$2.

AUGUST KOCH—Flowers very fragrant and freely produced. 7-8 inches. Of a pale wisteria-violet; sepals lilac. Plant of stocky, compact habit adaptable to varying conditions. Foliage a dark green. \$2.50.

PANAMA-PACIFIC—Flowers a wine-purple with golden stamens. This variety is practically ever-blooming; of compact habit producing young plants on the leaves. Leaves

beautifully spotted and marked as are the bronze-green buds. \$2.50.

## BLUE LILIES

MRS. ED. WHITAKER—Light lavender-blue flowers; long pointed petals; exceptionally free flowering. Very adaptable. Can be flowered in a small pot. Size of flower and foliage increased with additional allowance of water surface and soil. \$2.50.

CAERULEA—The original "Blue Lotus" of the Nile. Produces an endless succession of fragrant blooms until heavy frost. \$1.50.

PENNSYLVANIA—Flowers a deep rich blue; many petaled; stamens golden-yellow, tipped blue. Buds and leaves green beautifully splotched maroon. \$2.50.

BLUE BEAUTY—An old, beautiful, and dependable Tropical Water Lily having large fragrant flowers of a delightful blue; stamens yellow, tipped blue. Foliage and buds green, spotted purple. \$2.

DAUBEN—Flowers a light blue and very fragrant. Plant compact, suitable for Tub, Pool, or Aquarium culture. \$1.25.  
BLUE BIRD—Flowers of medium size, cup-shaped, of a good shade of blue. \$5.

ERNST LUDWIG—Given space, this variety will prove a vigorous grower, producing large flowers of a rich violet-blue on stout stems. Foliage glossy green. \$2.50.

WM. STONE—An excellent cut flower. Large, deep blue flowers on long stems in abundance. \$2.

CAPENSIS—Medium size, chalice-shaped, sky-blue flowers freely produced. \$1.50.

## DESCRIPTIONS OF NIGHT-FLOWERING VARIETIES

Gorgeous display of brilliant color is the offering of the Nightblooming Lilies for recognition and a place in every pool. The designation "Nightbloomer" is a trifle misleading; specifically, the flowers close at midday, or when the sunlight becomes strongest, and open again in the afternoon. On cloudy days or in late summer, when the weather becomes cooler, they sometimes remain open through the twenty-four hours.

The magnificently large, exquisitely colored flowers are deserving of greater popularity than they at present enjoy. These Lilies can be grown in the smallest of pools, in which case the leaves and flowers will be dwarfed, though the blooms lose none of their rich coloring; or in a large Pool, where with ample space they will produce continuous blooms surpassing in size any of the other types of Lilies.

## RED LILIES

DEVONSHIRE—Very free blooming. Bright rosy red flowers 8-10 inches. Bronze-green foliage. \$1.50.

BISSET—Leaves bronze-green. Flowers 8-10 inches; petals deep rose; stamens burnt orange. \$1.50.

GEORGE HUSTER—Flowers a brilliant crimson. A vigorous grower. \$2.

FRANK TRELEASE—Exquisite dark crimson flowers of good size; petals long, pointed giving a starry effect. Stamens deep reddish brown. Leaves dark red. \$2.

STURTEVANT—Enormous flowers; pink, deepening to red; desirable for large pools. \$2.

## WHITE LILIES

JUNO—The largest flowered Night Bloomer. Broad snow-white petals around a center of yellow stamens. Large, glossy-green, dentate foliage. \$2.50.

DENTATA—Blooms very freely, flowers of medium size. Petals broad, pure white surrounding a center of golden stamens. Foliage, green. \$1.50.

## PINK LILIES

RUBRA ROSEA—One of the best. Large flowers of brilliant rose-carmine held well above the mottled foliage. \$1.50.

OMARA—A vigorous grower. Produces large flowers of deep rose lightened by a white stripe through each petal; stamens deep orange-red. \$1.50.

JUBILEE—Flowers 6-8 inches; white with pink suffusion at base of the petals. \$1.50.



This fine example of the Formal Pool with fountain is deftly arranged with background plantings.

## BOOKS FOR WATER GARDENERS

There are no limits to the interest of the successful Water Gardener, for Water Gardening may be done with a minimum of time, effort, and expense, or it may be given extensive study. We would recommend especially the books listed below, and we can supply copies at the prices stated.

THE WATER GARDEN, by Peter Bisset. Two hundred and ten pages of interesting and worthwhile text on the culture of water lilies and other aquatic plants; also describes the arrangement of perennials, shrubs, and evergreens for the borders and backgrounds of Pools. Beautifully illustrated, \$5 a copy.

WATER GARDENS AND GOLDFISH, by Robert V. Sawyer and Edwin H. Perkins. A handy book, of great assistance to the amateur water gardener. Part I: Water Plants and Their Care; Part II: Goldfish, Their Care and Breeding, \$1.65 a copy.

GOLDFISH VARIETIES, TROPICAL AND SUB-TROPICAL AQUARIUM FISHES, by W. T. Innes. A complete, concise, and interestingly written book dealing with the various aquarium fish; their habits, care, diseases, and how to breed them. Also chapters on aquarium plants, how to build aquariums, pools, etc. New edition 1929, 300 pages; 275 illustrations. \$4 a copy.

MODERN AQUARIUM, by W. T. Innes, author of Goldfish Varieties. A new book on the essentials of breeding and care of Gold and Tropical Fishes. 64 pages; 30 illustrations. \$1 a copy.

Among valuable references on fish culture are: TROPICAL TOY FISHES, The National Geographic Magazine, March, 1931, page 287. GOLDFISH AND THEIR CULTIVATION IN AMERICA, The National Geographic Magazine, October, 1924.



The diagramatic illustration above may serve as a plan for planting a typical Nile Garden, or merely as a suggestion to the inventive gardener for a general plan into which any individual modifications desired may be easily introduced. It is usually good design that in pools approached from all sides the high growing plantings, like the Lotus Lilies, be grouped in the center; and in pools approached from only one or more sides the high growing plants form background groups.

Suggested planting arrangement illustrated: 1 and 2—Water Lilies, L—Lotus, A—Paper Plant and Cattails, B—Pontederia and Bulrush, C—Arrowhead and Sweet Flag, D—Floating Heart and Parrot's Feather, F—Water Hyacinth and Water Lettuce.

#### SPECIAL NILE GARDEN COLLECTION

2 Papyrus Plants	2 Water Lettuce
2 Water Rushes	2 Floating Heart
2 Arrowhead	2 Parrot's Feather
2 Pontederia	2 Bulrush
1 Sacred Lotus	2 Sweet Flag
2 Water Hyacinth	1 White Lotus Waterlily
1 Blue Lotus Waterlily	

TWENTY-THREE Plants, including  
TWO Water Lilies and a Sacred  
Lotus, in Collection.....

**\$7.50**

# Plant a Nile Garden

Lilies native to the ancient gardens of the NILE RIVER will bring a delightful Egyptian atmosphere into your garden plan

Garden. Flowers and leaves of these plants inspired many features of classical design. Seeds and roots of some of these plants were foods of early Nile River populations. The modern Water Gardener will find their beautiful and fragrant blossoms, their luxuriant and attractive growths, equally as inspiring.

#### THE NELUMBIAN OR SACRED LOTUS

Lotus plants are native to many parts of the world. The Hindu Lotus of India was worshipped by the early Egyptians so that it is popularly known as the Sacred Lotus. All varieties of the Lotus plants, which grow quite high above the water, are suitable for any Water Garden plan, especially as center pieces and corner plantings. They will grow and flower equally well in urns or other containers if moisture is abundantly supplied. Seed pods of the Lotus are almost as attractive as the flowers which precede them. Leaves and seed pods of the Lotus plants are often gilded or otherwise painted and made into unique interior decorative pieces.

Tubers of the Lotus plants, resembling large bananas, are shipped to our customers about May 15. Plant them as you do Hardy Lilies in only 6 to 10 inches of water. Lotus plants spread so rapidly that unless partitioned off in separate planting containers they may take possession of the whole pool and choke out other plants. Plant Lotus tubers at an angle in the soil so that the growing tips are just barely covered.

ONE of the most fascinating adventures in water gardening is the cultivation of Lotus Lilies, famed from time immemorial for their association with ancient Egyptian civilization—a type of Water Garden often called a Nile

AMERICAN LOTUS (*Nelumbium lutea*) is a variety native to the southern states, popularly known as the Water Chin-quapin, which thrives well in all eastern and northern parts of the country. Produces large, cream-yellow flowers. Each, \$1.50.

HINDU LOTUS (*Nelumbium nucifera*) produces flowers that are delightfully fragrant, the petals a beautiful rose at the tips shading to cream colors at the base. Hardy, vigorous, and free-growing. Each \$1.50.

SHIROMAN LOTUS—(*Nelumbium shiroman*) produces pure white flowers with golden stamens that are large and very fragrant. The blue green foliage is beautiful. Each, \$3.

CHINESE LOTUS (*Nelumbium pekinensis rubrum plenum*) produces magnificent double flowers of a rich rose, the finest red Lotus yet produced. Each, \$3.50.

#### LOTUS COLLECTION

Lotus groups are beautiful center pieces and background plantings for pools, and will grow and flower beautifully anywhere in the lawn if moisture is abundant. A choice collection of delightfully contrasting and fragrant plants which we can ship together are

One American Lotus    One Hindu (Sacred) Lotus  
One Chinese or Shiroman Lotus (your choice)

Three Strong Tubers,    \$5  
One of Each Variety,

# Shallow Water Plants

ALL Water Gardens, whether natural Ponds, artificial Pools, or Tub Gardens, should have their margins beautified by suitable plantings. About natural bodies of water the soil at the immediate edge is very moist and here the marsh, bog, and shallow-water plants thrive. Back from the edge, except in springy meadows and the like, the soil is usually well drained and admirably adapted to the growing of many beautiful hardy perennials. In many instances, however, the artificial Pool is constructed where the ground is high and dry. The border planting for such must necessarily be of perennials suited to a dry, sunny location. A number of suitable perennials are listed on the next page.

Formal Pools have their centerpieces and corner designs of shallow water plants, and in natural Pools the plantings are carried down the bank and into the water. The Shallow-Water Plants serve ideally for either purpose.

## LIST OF SHALLOW WATER PLANTS

ARROWHEAD, Giant (*Sagittaria montevidensis*). Hardy plants 1 to 3 feet high, producing freely tall spikes of large white flowers. 50 cts. each, \$1.25 for 3.

ARROWHEAD, Common (*S. latifolia*). Large arrowhead leaves and white flowers. Ideal for group planting in shallow water. Hardy. 25 cts. each, \$1 for 5.

BOGBEAN (*Menyanthes trifoliata*). Racemes of pretty white flowers suffused with pink, on stems a foot high. 50 cts. for 3, \$1.50 per doz.

CATTAILS (*Typha latifolia*). A graceful, attractive plant when grown in clumps, bearing the dark brown flower-spike well above the foliage. Excellent for naturalizing and entirely at home on the edge of Pools, at a swamp-border, and along sluggish streams. \$1 per doz.

FLOATING-HEART (*Nymphoides peltatum*). An European species with yellow flowers. Has a tendency to crowd out other plants once established. \$1 per doz.

FLOWERING RUSH (*Butomus umbellatus*). A hardy plant with peculiar three-sided leaves. Flowers pink. \$1 for 3, \$2.50 per doz.

FORGET-ME-NOT (*Myosotis palustris*). Flowers light blue, with yellow eye. A pretty little plant blooming throughout the spring and summer. \$1 for 5, \$2 per doz.

MARSH MARIGOLD (*Caltha palustris*). Large, yellow, goblet-shaped flowers in early spring. 75 cts. for 4, \$2 per doz.

PARROT FEATHER (*Myriophyllum proserpinacoides*). Long, trailing stems and whorls of finely cut, beautiful green foliage. Very attractive as an edging plant, the tips floating out upon the water. 50 cts. for 3, \$1.50 per doz.

PICKEREL WEED. A sub-aquatic common to borders of brooks and Ponds, having spikes of intense blue flowers. 2 ft. 50 cts. for 2, \$2.50 per doz.

PRIMROSE CREEPER (*Jussiaea repens*). A quick-growing, trailing aquatic having waxy green leaves and masses of yellow flowers. Hardy. 50 cts. for 3, \$1.50 per doz.

## FISH AND SCAVENGER COLLECTION FOR NILE GARDEN

12 Comet Goldfish, 4-5 inch.

6 Shubunkins, 3-4 inch.

6 Japanese fantails, 2½ inch.

1 Small Pool Collection of Scavengers. (6 Japanese Snails, 6 Black Ramshorn Snails, 6 Tadpoles, 2 Clams, 2 Salamanders).

THIS COLLECTION \$6

See many other Fish and Scavenger Collections on pages 24, 25 and 30.



Many distinctive Water Gardens are created by the inventive worker, and the delightful little Pool illustrated above shows how much of beauty and interest rewards very, very little work and expense. Here a tiny Pool barely larger than a Tub Garden grows a vigorous Lily constantly in gorgeous bloom—carries sparkling beauty in a variety of water and rock plants—and forms a garden jewel for the pretty flag stone walk through the lawn.

PURPLE WATER HYACINTH (*Eichhornia azurea*). Plants of creeping habit, the runners floating out upon the water. Flowers of rich purple with delicately fringed petals. 50 cts. each, \$1.25 for 3.

SWEET FLAG, Variegated (*Acorus calamus variegata*). Iris-like leaves, striped green and creamy white, on running root-stalk. Hardy, 2 to 3 ft. \$1 for 4, \$2.50 per doz.

SWEET FLAG, Dwarf (*A. gramineus variegata*). Dwarf; narrow leaves, having a pure white stripe. Hardy. 8 to 10 in. 35 cts. each, \$1 for 3.

WATER POPPY (*Hydrocleis nymphoides*). A pretty, Water Lily-like plant having yellow chalice-shaped flowers with black centers. 50 cts. for 3, \$1.50 per doz.

WILD CALLA (*Calla palustris*). Small white Calla Lily with flowers on running root-stalks. A splendid edging plant. 75 cts. for 4, \$2 per doz.

WILD RICE (*Zizania aquatica*). A very ornamental, reed-like aquatic bearing large panicles of bloom on graceful stems 6 to 10 feet high. A few plump heads of Wild Rice seeds will attract birds to your Pool in numbers. \$1 per doz.

COLLECTION of 7 Shallow-Water Plants, \$1  
COLLECTION of 15 Shallow-Water Plants, \$2

# Floating and Oxygenating Plants

WHEREVER fish are kept, in Pool or Aquarium, the Floating and Oxygenating plants take on especial importance. Oxygenating plants produce free oxygen in the water in the processes of growth and are very valuable in supporting vigorous and active fish life for this reason. Floating Plants provide natural places for the fish spawn, their dense masses of roots being ideal for holding the spawn close to the surface of the water where the eggs will be sure of sufficient warmth from sunshine to hatch. Oxygenating and Floating Plants in the Water Garden will provide a convenient source of fresh plantings for the Aquarium, where they are necessary if balanced aquarium life is to be established.

## FLOATING PLANTS

Floating Plants may be placed anywhere in the pool and are unexcelled for planting nooks and corners, or at the base of taller growing plants.

AZOLLA—Forming crinkly green or reddish patches upon the water. Excellent as a cover for young fish. 50c per portion; \$1.25 for three.

WATER FERN—A true fern; bearing young plants on the leaves. A good cover and very useful in raising Red Snails. 50c for four; \$1.50 per doz.; small plants, 50c per portion.

DUCK WEED—A good fish food. Tiny, round leaves like polka dots on the water. 50c per portion; \$1.25 for three.

SALVINIA—Very odd and a good cover. Forms a chain of tiny, round, green leaves. 50c per portion; \$1.25 for three.

WATER LETTUCE OR SHELLFLOWER—Blue-green fluted leaves and long, wavy roots. Strikingly different. 50c for three; \$1.50 per doz.

WATER HYACINTH—Spikes of orchid-lavender flowers and young plants produced very freely if the long, massy roots are allowed to anchor their tips in soil. Excellent for the spawn of gold or tropical fishes and as a cover for the young. 50c for four; \$1.50 per doz.

## Special Aquarium Collection of Oxygenating Plants

10 (plants and bunches); your choice, \$1

## FLOATING PLANT COLLECTIONS

1. Five assorted Floating Plants.....\$1
2. Twelve assorted Floating Plants....\$2

## OXYGENATING PLANTS

If soil has been placed in the bottom of the Pool these plants may be weighted and dropped in anywhere desired, taking root in a very short time; or they may be planted in pots or pockets along the side or in a shallow box placed directly on the bottom.

ANACHARIS—A rapid growing plant and one of the best oxygenators. 50c for four bunches; \$1.50 per doz.

SAGITTARIA SINENSIS—Excellent for bottom cover in the pool; and a very desirable aquarium plant. 50c for four plants; \$1.50 per doz.

VALLISNERIA—A good oxygenator with long, narrow, wavy leaves. 75c per doz.; \$1.25 for twenty-five plants.

CABOMBA—Very popular. Broad, fan-shaped, finely cut leaves. 50c for four bunches; \$1.50 per doz.

MILFOIL; MYRIOPHYLLUM—Excellent for fish spawn. Delicate green leaves having a lacy appearance under water. 50c for four bunches; \$1.50 per doz.

LUDWIGIA—Round, glossy green leaves; under side and stems red. Very decorative in the aquarium. Should be planted in shallow water, in pools. 50c for four bunches; \$1.50 per doz.

COONTAIL, CERATOPHYLLUM—Straight growing stems with short bushy side growths. Leaves like tiny pine needles. 50c for four bunches; \$1.50 per doz.

## Oxygenating Plant Collections for the Pool

1. 20 (Plants and bunches) in 5 varieties..\$2.00
2. 36 (Plants and bunches) in 6 varieties.. 3.25
3. 60 (Plants and bunches) in 6 varieties.. 5.00

## HARDY ORNAMENTAL GRASSES

MISCANTHUS SINENSIS GRACILLIMUS (*Eulalia gracilis univittata*)—(Maiden Grass.) A graceful, ornamental,

hardy Grass with long, narrow, green leaves, midrib lighter. Plumes rise from center. 4 to 5 ft. 35c each, \$1 for three.

MISCANTHUS SINENSIS VARIEGATUS (Striped Eulalia)—A variety having broader leaves striped white and green. 4 to 6 ft. 35c each, \$1 for three.

MISCANTHUS SINENSIS ZEBRINUS—Makes showy clumps of graceful foliage with alternating bands of green and creamy white. 35c each, \$1 for three.

PENNISETUM ALOPECUROIDES (*P. japonicum*)—A hardy fountain-like Grass having the flower plumes well above the foliage. 3 to 4 ft. 35c each, \$1 for three.

## COLLECTION

Hardy Grasses, three of each variety of Miscanthus, nine strong clumps, for \$2.50

## DWARF HARDY PERENNIALS

### For the Paved Walk or Rockery About the Pool

ALYSSUM ROSTRATUM—Yellow.

ARABIS (Rock Cress)—White.

CERASTIUM (Snow-in-Summer)—White.

DIANTHUS (Maiden Pink)—Red.

HEUCHERA SANGUINEA—Pink.

IBERIS SEMPERVIRENS—White.

IRIS CRISTATA—Blue.

IRIS VERNA—Blue.

LYSIMACHIA NUMMULARIA—Yellow.

MENTHA (Mint)—Purple.

MYOSOTIS (Forget-me-not)—Blue.

NEPETA—Blue.

PHLOX (Moss Pink)—White, Pink, and Lilac.

PRIMULA VERIS (Cowslip)—Yellow.

SAXIFRAGA VIRGINIENSIS—White.

SEDMUM in variety.

SILENE SCHAFTA—Rose-pink.

THYMUS VULGARIS—Purple.

VINCA MINOR (Periwinkle)—Blue.

VIOLAS—Blue and white.

(All Rock Plants, single varieties. \$1 for five; \$2 per doz.)

## DWARF PERENNIALS AND ROCK PLANTS

2 each of 5 varieties (10 plants)	\$2.00
4 each of 5 varieties (20 plants)	3.75
5 each of 10 varieties (50 plants)	7.50

# Bog and Marsh Plants and Perennials

FLOWERING and foliage plants which give a luxuriant, tropical effect to the pool. Plant on wet banks or in ledges or pockets made about the sides of the pool, which are kept wet but not flooded. Some do well as house plants in the winter if kept well watered.

CRINUM (*C. americanum*)—Delights in plenty of water. Bears its large, fragrant white flowers in umbels of six to eight. 35c each, \$1 for three.

FORGET-ME-NOT (*Myosotis palustris*)—See page 13.

GINGER or BUTTERFLY LILY, (*Hedychium coronarium*)—In moist soil, makes good clumps 3 to 5 feet high, with garlands of sweet-scented, snow-white flowers. 35c each, \$1 for three.

YELLOW FLAG (*Iris pseudacorus*)—Attains a height of 4 feet in very wet soil and makes a very attractive clump for the edge of the pool or in natural plantings. Hardy. 75c for three, \$2.50 per doz.

MARSH IRIS (*I. versicolor*)—Native to brooksides and marshes. Bears light purple flowers very freely in spring and early summer. \$1 for five, \$2 per doz.

JAPANESE or WATER TARO (*C. antiquorum illustris*)—A moderate-growing variety with beautiful green foliage splotched with purplish black. 50c each, \$1.25 for three.

JAPANESE or WATER TARO (*Colocasia multiflora*)—A very beautiful ornamental foliage plant for the border in wet soil. Grows 2 to 4 feet high, with large, rich green leaves on purple stems. 75c each, \$2 for three.

CARDINAL FLOWER (*Lobelia cardinalis*)—Thrives in low, wet places but does equally well in drier, shady locations. Ideal for adding a touch of color at the base of taller-growing shrubbery. \$1 for five, \$2 per doz.

LARGE BLUE LOBELIA (*L. siphilitica*)—A native species with beautiful large blue flowers. \$1 for five, \$2 per doz.

PAPER PLANT, EGYPTIAN (*Cyperus papyrus antiquorum*)—Makes a very attractive clump when well cared for with good soil and plenty of water, giving a tropic effect to the pool. 50c each, \$1.25 for three.

PRIMROSE WILLOW (*Jussiaea longifolia*)—A desirable edging plant, 2 to 3 feet high, the slender branches drooping at the tip. Alternate flowers of a pretty golden yellow. 35c each, \$1 for three.

THALIA (*T. dealbata*)—A stately, marginal aquatic, attaining a height of 6 feet when well grown. Delights in shallow water or wet bank. Its powdery, canna-like foliage and elegant panicles of purple flowers make it a most desirable plant for the border. 50c each, \$1.25 for three.

UMBRELLA PALM (*Cyperus alternifolius*)—A decorative sedge doing well in any soil. Does very well in wet soil but will grow in a dry location. \$1 for three, \$3 per doz.

WATER MANNA GRASS (*Panicularia aquatica*)—A hardy, perennial grass suited to very low ground. Leaves narrow, striped white and green. 2 ft. 50c each, \$1.25 for three.

GREAT BULRUSH (*Scirpus lacustris*)—A very interesting rush 3 feet high. \$1 for three; \$2.50 per doz.

SPIRAL PALM—Similar in growth to the Umbrella Palm, but produces greenish white flowers. Plants from 3-in. pots. \$1 for three; \$2.50 per doz.

WATER PLANTAIN (*Alisma plantago-aquatica*)—A plant with heart-shaped leaves standing about a foot above the water, and spikes of white flowers. \$1 for three; \$2.50 per doz.

SWEET FLAG (*Acorus calamus*)—The well known Sweet Flag. \$1 for five; \$2 per doz.

CANNA FLACIDDA—An aquatic canna which grows about two feet tall and produces yellow flowers. It does well in shallow water. \$1 for three; \$2.50 per doz.

WATER SNOWFLAKE—This floating aquatic has leaves like a lily. When detached the leaf will send down roots in shallow water and develop into a new plant. It produces dainty white flowers an inch in diameter, and the resemblance to a giant snowflake is striking. 35c each, \$1 for three.

**COLLECTION of 7 Bog and Marsh Plants, \$2**  
**COLLECTION of 15 Bog and Marsh Plants, \$4**

immense bouquet of golden yellow flowers.

H. AUTUMNALE RUBRUM—Rich orange-red flowers.

H., RIVERTON BEAUTY—Odd flowers having a purplish black cone in center against a background of rich lemon-yellow petals.

HEMEROCALLIS—Day Lilies. Particularly suited for plantings about the pool or any bit of water.

H., DR. REGEL—Flowers bell-shaped; chrome-yellow.

H. FULVA—Trumpet-shaped orange flowers, with tawny shadings.

H. THUNBERGI—Large yellow flowers; late.

H. MIDDENDORFI—Flowers in bright yellow clusters; medium height.

HIBISCUS (Rose Mallow)—Thrives in any soil. Excellent for mass plantings. Large rose-red flowers.

IRIS SIBIRICA, ORIENTALIS—Yale blue; long, narrow foliage.

I. SIBIRICA, SNOW QUEEN—Pure white; free-growing.

LYTHRUM SALICARIA ROSEUM (Rose Loosestrife)—A choice new variety of rosy Loosestrife. Excellent for naturalizing.

MONARDA DIDYMA (Oswego Bee-balm)—Brilliant scarlet flowers. Excellent for bold effects.

THALICTRUM POLYGAMUM (Fall Meadow-rue)—Large heads of white flowers. Delights in wet places.

## PERENNIALS FOR MOIST AND DRY LOCATIONS

Most of these Perennials are adapted to wet and very moist, well-drained soils. There are a number which will thrive equally well in moist or rather dry soils, and also a few preferring a dry location. These latter are included since the artificial pool may be built in soil next to impossible to keep moist yet about which a border of Perennial Plants is desired.

### Single Varieties, \$1 for 4, \$2.50 per doz.

AQUILEGIA—There are no more fit subjects for the moist, well drained border or rockery about the pool than the Columbines.

A. ALPINA (Alpine Columbine)—Large blue flowers.

A. CANADENSIS (American Columbine)—The native, bright red and yellow Columbine.

A. CHRYSANTHA (Golden Columbine)—Beautiful, long-spurred yellow flowers.

ACHILLEA PTARMICA, BOULE DE NEIGE (Yarrow)—Large heads of pure white flowers.

### HARDY ASTERS

The hardy Asters are of comparatively easy culture and produce their flowers in great profusion.

ASTER NOVÆ-ANGLIÆ (New England Aster)—Clusters of bright violet-purple flowers.

### HARDY PERENNIALS

2 each of 5 varieties (10 plants)	\$2.00
4 each of 5 varieties (20 plants)	3.75
5 each of 7 varieties (35 plants)	6.00
5 each of 10 varieties (50 plants)	7.50



The diagram above illustrates a very suitable plan for planting large Pools, showing how the taller growing plants serve as corner and center pieces. Large Pools will provide a considerable latitude in the arrangement of plants. The Goldfish and Scavengers offered in our collections are correct for balanced aquatic life in the Pool, which is essential to keep the water clean and clear, and to promote suitable soil conditions for the plants.

Suggested planting arrangement illustrated:  
1 to 8—Water Lilies.

A—Umbrella Palm, Sweet Flag, Water Poppy.

B—Arrowhead, Water Amaryllis, Floating Heart.

C—Sweet Flag, Water Willow, Water Clover.

D—Water Taro, Spider Lily, Trailing Hyacinth.

E—Paper Plant, Bulrush Cattail, Water Canna, Parrots Feather.

F—(Two identical groups)—Water Hyacinth, Water Lettuce, Water Fern, Salvinia.

# Popular-Priced Collections

the widest range of selection in practical assortments shipped everywhere at popular prices, ready to plant . . .

great variety of collections listed will meet every requirement for the largest to the smallest pools, and satisfy every individual taste for assortments of plants.

Detailed descriptions of the items included in the various collections can easily be found in the sections of this catalog devoted to the different groupings of Water Lilies, Goldfish, Tropical Fish, Miscellaneous Water Plants, and border Plants and Grasses.

Hoosier Aquatic Gardens collections represent the finest in quality of every article included, and the

PLANTING SCHEMES of proved merit are represented in each of the many special collections of Water Lilies, Plants and Ornamental Fishes offered by Hoosier Aquatic Gardens in this and following pages. The great variety of collections listed will meet every requirement for the largest to the smallest pools, and satisfy every individual taste for assortments of plants.

maximum economy for the purchaser. See page 31 for a detailed statement of terms and shipping conditions applying to all orders. You will find a convenient order blank inside the back cover of the catalog making it easy for you to give us all the necessary information concerning your order and the proper shipping of it.

## IDEAL PLANTINGS FOR WATER GARDENS

*These complete pool collections do not include Perennials for the reason that many Water Gardens are planned without provision being made for Perennials and Rock Plants about the borders and walks. For those having a Rock Garden, flagged walk, or desiring a border of Perennials about the Pool, we offer a very choice selection of Perennials and Rock Plants on page 15.*

Plantings in Water Gardens, so far as numbers of plants are concerned, are determined by the water area available, and the following choices forming a complete collection are ideal for Pools as large as 10 by 16 feet or more.

### FOR LARGE POOLS

WATER LILIES: Your choice of any one of the following:

1. Five Superb Hardy Lilies and the Zanzibar Trio. (Page 18.)
2. Four Choice Day-Blooming Lilies (page 18), and the Blue Ribbon Collection (page 17).
3. Five Hardy Lilies as illustrated on front cover (our Show Collection) and the Marliac Trio. Illustrated page 8.

AQUATIC PLANTS: 80 plants as follows: 32 plants suitable for corners, or ledges along the sides of the Pool, such as Taro, Arrowhead, Primrose Willow, Umbrella Palm, Parrots Feather, Forget-me-not, etc., our selection; 36 submerged or oxygenating plants; 12 floating plants, such as Water Hyacinth, Water Fern, Shellflower, etc. (See pages 13, 14 and 15.)

FISH AND SCAVENGERS: 30 Goldfish as follows: 6 Young Giants, 12 Large Comets, 6 Extra-large Comets, 6 Extra-large Shubunkins, 1 Large Pool Scavenger Collection, 1 lb. Grassyfork Goldfish Food.

**A Complete Assortment for Large Pools, only \$32.50**

### FOR MEDIUM POOLS

(A Pool 6 x 8 feet, or 7 x 9, or 9 x 9 feet in diameter)

- 5 Water Lilies: Your choice of any one of the following three collections:
  1. Hoosier Garden.
  2. Five Superb Hardy Lilies.
  3. Show Collection — Five Hardy Lilies illustrated on front cover.
- 38 Aquatic Plants, to include: 10 plants suitable for centerpiece or background; 16 plants for corners or margins; 6 submerged plants; 6 floating plants.
- 18 Fancy Fish, to include: 2 pairs Young Giants; 6 Extra-large Comets; 6 Extra-large Shubunkins; 1 pair Large Jap Fan-tails.
- 40 of the Best Scavengers, to include: 12 Tadpoles; 6 Japanese Snails; 12 Black Ramshorn Snails; 2 Salamanders; 4 Green Frogs; 4 Clams.
- 1 lb. carton Grassyfork Goldfish Food.

**\$21.50**

**Complete**

# of Water Lilies and Plants

## FOR POPULAR SIZED POOLS

(A Pool 6 by 7 feet, or 8 feet in diameter)

A Pool of the approximate dimensions given above is gaining favor with an increasing number of our customers each season. **WATER LILIES.** Four Lilies, any one of the following Collections: Four Popular Hardy Lilies (see page 17), or Unexcelled Collection (see page 18), or Four Popular Tropical Lilies (see page 17).

**30 CHOICE AQUATIC PLANTS.** To include: 8 plants for corners or backgrounds; 16 plants for corners or margins, 3 floating plants, 3 submerged plants.

**14 BEAUTIFUL LARGE BREEDING FISH** to include 2 pair Young Giant Goldfish, 6 Large Comets, and 6 Large Calico Fish or Shubunkins.

22 of the best Scavengers.

1 lb. carton Grassyfork Goldfish Food.

**Collection Complete for Popular Sized Pool.....\$14.50**

## FOR SMALL POOLS

(A Pool 6 to 7 feet in diameter, or 4 x 6 feet, or 5 x 7 feet)

**3 WATER LILIES** to include: 1 Chromatella (best yellow, hardy); 1 Blue Beauty (ever blooming blue, tropical); 1 Pink Opal (deep pink, hardy).

**23 AQUATIC PLANTS** to include: 5 plants for centerpiece or background; 12 plants for corners or margins; 3 Floating Plants; 3 Submerger Plants.

**16 ORNAMENTAL FISH** to include: 12 Large Common Goldfish; 2 Japanese Fantails; 2 Shubunkins or Calico Fish.

**22 OF THE BEST SCAVENGERS** to include: 6 Japanese Snails; 6 Tadpoles; 6 Black Ramshorn Snails; 2 Green Frogs; 2 Salamanders.

1 lb. carton Grassyfork Goldfish Food; 1 Fish Bucket. **Complete Collection.....\$10**

## BLUE RIBBON COLLECTION

This Collection will delight you. In color, number of flowers, sturdiness of varieties, and in price, it cannot be surpassed.

Capensis. (Dayflowering) Blue.

Chromatella. Yellow; hardy.

Eugenia de Land. Pink; hardy.

Frank Trelease. (Nightflowering) Red.

**One of each, in Collection.....\$5**

## QUALITY FOUR

Chromatella. James Brydon.

Paul Hariot. Eugenia de Land.

**Four excellent varieties, in Collection.....\$6.75**

## TRIO OF FAVORED HARDY LILIES

Aurora. (Hardy) Amber-yellow.

Alba candidissima. (Hardy) White.

James Brydon. (Hardy) Red.

**One of each, in Collection.....\$4.25**

## TRIO OF TROPICAL LILIES

Zanzibar Rose. (Dayflowering).

Juno. (Nightflowering) White.

Capensis. (Dayflowering) Blue.

**One of each, in Collection.....\$4.50**

## ELITE COLLECTION

Mrs. Edwards-Whitaker. Light blue.

Pennsylvania. Blue. Zanzibariensis. Purple.

Stella Gurney. Pink. Gracilis. White.

**In Collection, five excellent varieties.....\$9.50**

## MARLIAC TRIO

(See Natural Color Photograph, page 8)

Marliac Red. Marliac White.

Marliac Yellow.

**In Collection.....\$3.50**

## FOUR POPULAR TROPICAL LILIES

Mrs. Edwards-Whitaker. Light blue.

August Koch. Violet.

Juno. (Nightflowering) White.

Zanzibariensis rosea. Pink.

**In Collection.....\$8**

## FOUR POPULAR HARDY LILIES

Marliacea albida. White.

Sioux. Yellow-orange.

Pink Opal. Pink. James Brydon. Red.

**In Collection.....\$7.50**

## HOOSIER GARDEN COLLECTION

Panama-Pacific.

Mrs. Edwards-Whitaker. Rose Arey.

Frank Trelease. Comanche.

**One of each, in Collection.....\$10**

## ECONOMY TRIO

Our most favored Collection. Three Hardy Lilies suitable for Tubs, the Pool or natural plantings.

**Collection of 3 varieties.....\$3**



A handsome planting plan for popular and medium Pools is diagramed in the illustration above. Our Pool Collections are chosen so that you can provide from 8 to 12 square feet of water surface for each Hardy or Tropical Lily. The larger-growing varieties will do better, producing larger and more abundant blossoms, if from 12 to 20 square feet of water surface are provided for each plant. A Pool 6 by 8 feet in size will accommodate four or five Water Lilies, and a generous assortment of other plants; one 8 by 10 feet will support a maximum of ten Water Lilies. In a Pool as large as this the Water Gardener may well have fewer plants and turn his attention to producing large blooms by allowing more water space and enriching his soils generously with fertilizers.

Suggested planting arrangement illustrated:

1 to 4 Water Lilies.

A—Water Taro, Arrowhead, Water Poppy.

B—Water Iris, Hedychium, Water Clover.

C—Sweet Flag, Water Willow, Parrot's Feather.

D—Umbrella Palm, Water Plantain, Wild Calla.

E—Cattail, Paper Plant, Marsh Marigold.

F—Water Hyacinth, Water Lettuce or Shellflower, Water Fern.



The Small Pools of informal design can be so easily adapted to all manners of garden and lawn plans that they give great satisfaction to water gardeners everywhere. The diagram above shows a very satisfactory way of planning such pools, and collections much larger may well be planted after this fashion where space permits sufficient water surface. This diagram shows a good handling of our collection for small pools listed on page 17 as follows:

1, 2 and 3—Water Lilies.  
 A—Cattail, Arrowhead, Water Poppy.  
 B—Umbrella Palm, Pontederia, Forget-me-not.  
 C—Water Iris, Parrots Feather, Umbrella Palm.  
 D—Variegated Sweet Flag, Water Taro, Floating Heart.  
 E—Paper Plant, Water Canna, Parrots Feather.  
 F—Water Hyacinth, Water Lettuce or Shellflower, Water Fern.

# Popular Pool Collections

## FOUR CHOICE DAYBLOOMING LILIES

Zanzibar Purple.  
 Mrs. George H. Pring. White.  
 General Pershing. Pink.  
 Blue Beauty. Blue.  
 One of each, in Collection ..... \$9.50

## BEAUTY TRIO

Three exquisite flowers from lightest blue to wine-purple. These varieties will reward you with a wealth of bloom, whether grown in large Pool or Tubs.

Mrs. Edwards-Whitaker. Light blue.  
 Blue Beauty. (Dayflowering) Blue.  
 Panama-Pacific. Wine-purple.  
 One of each, in Collection ..... \$6

## FIVE SUPERB HARDY WATER LILIES

Aurora. Red-orange.  
 William Doogue. Soft pink.  
 Chromatella. Yellow.  
 Attraction. Rich red.  
 Gladstone. White.  
 One of each, in Collection ..... \$9

## ZANZIBAR TRIO

The Zanzibar Lilies produce very fragrant flowers of good size, freely and continuously. Excellent for cutting.

Zanzibar Purple. Zanzibar Rose.  
 Zanzibar Blue.  
 One of each, in Collection ..... \$4.50

## A NILE GARDEN

Includes four plants which have grown in the still, shallow water along the banks of the Nile for ages. (See page 12). A beautiful collection of age-old Water Garden plants \$7

## A TRIO OF LOTUS

Three tubers of named varieties of this magnificent, stately Water Plant. (See page 12). \$5

## ROYAL TRIO

Three superb varieties. Plants of medium size, producing their flowers in great abundance.

Odo Rosea. Pink; hardy.  
 Caerulea. Blue.  
 Chrysanthia. Amber-yellow.  
 One of each, in Collection ..... \$3.50

## ELITE TRIO

Graziella. Pink Opal. W. B. Shaw.  
 One of each, in Collection ..... \$3.50

## UNEXCELED COLLECTION

Four beautiful varieties—a Water Garden bouquet.  
 Purple Star. Paul Hariot.  
 Marliac Rose. George Huster.  
 One of each, in Collection ..... \$7.50

## FIVE DAYBLOOMING LILIES

Five varieties which will provide a gorgeous display of color in the Water Garden.

Ernst Ludwig. (Dayflowering) Blue.  
 Gladstone. (Hardy) White.  
 Masaniello. (Hardy) Shell-pink.  
 Gloriosa. (Hardy) Red.  
 Gracilis Rosea. (Dayflowering) Pink.  
 One of each, in Collection ..... \$10.50

## AQUATIC PLANT COLLECTIONS

**SMALL POOL COLLECTION**—23 Choice Aquatic Plants, to include (our selection) 6 plants for centerpiece or background; 14 plants for corners or margins; 3 floating plants; 3 submerged plants.

**Complete Collection** ..... \$3.00

**POPULAR POOL COLLECTION**—30 Choice Aquatic Plants, to include (our selection) 8 plants for centerpiece or background; 16 plants for corners or margins; 3 floating plants; 3 submerged plants.

**Complete Collection** ..... \$4.00

**MEDIUM POOL COLLECTION**—38 Choice Aquatic Plants, to include (our selection) 10 plants for centerpiece or background; 16 plants for corners or margins; 6 submerged plants; 6 floating plants.

**Complete Collection** ..... \$5.00

**LARGE POOL COLLECTION**—80 Choice Aquatic Plants to include (our selection) 32 plants suitable for corners or ledges, such as Taro, Arrowhead, Primrose Willow, Umbrella Palm, Parrots Feather, Forget-me-not, etc.; 36 submerged plants; 12 floating plants, such as Water Hyacinth, Water Fern, Shellflower, etc.

**Complete Collection** ..... \$7.50

**SPECIAL LARGE COLLECTION**—92 Choice Aquatic Plants to include (our selection) 12 plants suitable for centerpiece or background; 32 plants suitable for corners or ledges; 36 submerged (oxygenating) plants; 12 floating plants.

**This Big Collection, only** ..... \$10.00

# Ornaments for Pools

MANY POOLS will gain attractiveness from the use of such interesting ornaments as are shown here. Gnomes, dwarfs and water animals are most popular. All the figures we offer are hand-made of best grade terra cotta, the rich and quiet combinations of colorings are weather fast, and these figures will last out-of-doors indefinitely. Many inferior plaster of paris, non-fast color imitations are being offered at lower prices; but such are in no way comparable to the high-grade, permanent, terra cotta, weather-proof, baked, fast-color ornaments herein offered. The modeling of the figures is almost life-like in its realism. In addition to the popular items priced below, we will be pleased to send a catalog upon request to those who wish to see other possible selections. The catalog will be sent upon receipt of \$1.00, which will be refunded when the catalog is returned.

## WINTER CARE OF PLANTS AND POOLS

The best winter protection for Hardy Lilies and all other Hardy Aquatic Plants is a sufficient depth of water so that ice will not form down to the roots; for, as long as the roots are not actually frozen, Hardy Lilies and Aquatics will winter over. Therefore it is much the better practice to leave all Hardy Aquatic Plants outside over winter; Goldfish also may be left in the Pool. The plants will be stronger and start growth much earlier in spring than if taken indoors.

However, one must decide on the strength of the Pool walls before leaving the water in over winter. If walls are straight they should be well reinforced to withstand the pressure of the ice. If sloping, bowl-shaped; less care need be given to this feature, as the expanding ice will rise in the Pool. On Pools not reinforced or not well reinforced (and in fact, on all Pools as a safety measure), a cover or roof of boards should be placed. Allow the boards to extend six inches beyond the walls all around. After this roof is laid down, cover over with leaves, straw, stable manure, or any

TURTLE Figures (may be used as a floating ornament if desired).

4½-inch size, each .....	\$ 1.50
10-inch size, each .....	4.00
13-inch size, each .....	8.00
20-inch size, each .....	15.00

FROG Figures (may be used as a floating ornament).

5-inch size, each .....	1.50
8-inch size, each .....	3.00
10-inch size, each .....	4.50
15-inch size, each .....	8.00

GNOMES

16-inch figure, each .....	8.00
28-inch figure, holding shell or leaf suitable for bird bath, each .....	22.00
Special 5-inch wide Turtle and Frog figures, hard-burned terra cotta, each ..	.40
Per dozen .....	3.00



such protective covering. With such a roof and covering, very little ice will form, and plants, fish and the Pool itself will be adequately protected.

If draining the Pool is preferred, roots of Lilies and other Hardy Aquatics may either be left in the bottom or in the boxes or removed to a cool basement. If left out, fill the Pool with leaves, straw, etc., cover over with boards and cover the boards with stable manure.

Tub Gardens may be covered over with boards and leaves, straw, or stable manure; or they may be drained and filled with leaves or straw and then covered over with stable manure. They may also be drained and taken into a cool garage or basement.

Tropical Lilies may be flowered the year around if provided with a temperature of 65 to 70 degrees and good soil. Where a greenhouse, conservatory, or sun-room tank is available, they may be taken in and flowered all winter. Otherwise, the roots may be placed

in a tub with water in the basement and left in a semi-growing condition all winter if provided with good light. They may also be stored in moist sand. We advise, however, that Tropical Lilies be regarded as annuals and new ones obtained from the greenhouse each year.

**KEEPING THE POOL CLEAR:** To keep the Pool clear and clean, some submerged and floating plants and a few fish and snails will prove very effective and safe. The fish will destroy any insect life and the snails and plants will clean up discolored water in a natural way. It is inadvisable to use chemicals.

# Goldfish for Water Aquariums . . .

GOldfish might well be called necessities for the Water Garden, so much do they contribute not only to its beauty and interest, but to the ease and success of its maintenance as well. Almost any outdoor Pool gives suitable conditions for the fish to increase in size and also to reproduce. Not only will the Pool be generously stocked, but the indoor Aquarium will gain finer specimens through the better growth and development of the Goldfish where they have the range and variety of food provided in the Pool. Goldfish fed occasionally at the edge of the Pool will soon be tamed and inclined to school and approach the visitor at the Pool border, bringing life and color to the whole scene that could be had in no other way. Goldfish in the Pool will destroy insects and their larvae.

With the tremendous resources of Grassyfork Fisheries, Inc.—the world's largest commercial Goldfish Hatcheries—at our command, Hoosier Aquatic Gardens is able to offer you the utmost economy in Collections of Goldfish for the Pool, and to supply any special orders, even for Goldfish of maximum size for larger Pools and natural lakes. We invite special inquiries. You will find leading dealers everywhere selling Grassyfork Goldfish, too.

Be careful not to overfeed Goldfish. In large Pools they will not require any feed other than what they find naturally. In small Pools some special feeding may be desirable. But even in indoor Aquariums the danger is that the fish will be fed too much. We supply a variety of special fish foods suitable for all feeding requirements. (See page 30.)

Goldfish may well be left in the Pool over winter if the water is deep enough not to freeze solidly to the bottom. Break a hole or two in the ice occasionally to increase air in the water. If you keep an indoor Aquarium, seine out the best specimens from the Pool for your enjoyment throughout the winter.

If the Pool must be drained for the winter, fish not to be kept in an Aquarium can be stored in tubs or other containers in the basement. Here the water must be changed occasionally, or a trickle of running water provided, unless you can transfer some sagittaria, myriophyllum or other oxygenating plants with the fish and establish balanced Aquarium conditions in the storage tubs. The use



The SHUBUNKIN is one of the most attractive Goldfish for the Water Garden because of its extreme variation of coloring. Red, black and blue patches against a pearl background are characteristic of the Shubunkins, which often are scaleless, and the color markings occur in such variety that no two fish are at all alike. The Calico Fantails listed in our Goldfish Collections are somewhat similar in appearance, but have the body formation of the Fantails.

# Gardens, Pools and

of our Galva-Tank is recommended for winter care of fish taken from the Pool.  
(See page 9.)

If you are interested in raising Goldfish in the Pool, get them in before the spawning season in early May. Provide root clumps of floating plants (Water Hyacinths, etc., page 14) or bunches of submerged grasses tied together and allowed to float (see Milfoil, page 14) in which the eggs will be deposited. It is difficult to determine the sex of Goldfish, and a dozen or more should be placed in the Pool if breeding is desired.

## CARE OF FISH IN POOLS

In natural ponds and lakes Goldfish may be left out safely over winter. In constructed pools, care should be taken to see that the water in them is of sufficient depth not to freeze solid; also, the ice in them should be broken occasionally — especially if the weather is severe and ice covers the pool for several days at a time. It is good practice to remove the fish to an Aquarium indoors:— this will keep them in excellent condition and affords a convenient means of enjoying them all winter. Where an excess of Goldfish are kept in an Aquarium, a third of the water should be changed each day or the Aquarium equipped with a water supply pipe and overflow.

Tropical fishes must be taken indoors before temperature falls below sixty degrees. They will stand considerable crowding and do well in a seventy-degree room temperature. For safety, especially with young fish, use an electric heater. (See pages 30-31.)

Goldfish must be shipped in cans. On small orders a charge of 50 cents is made for each can. Large cans are returnable by prepaid express at a cost of 20 cents a can. We ship Goldfish every day of the year. See instructions for receiving express shipments, page 31.

## FEEDING

In the Pools, fish should be fed only about three or four times a week. Use a cereal and meat food for health, color and size. If fed at regular intervals at the same place in the Pool, they tend to become quite tame and will collect at that spot. (See pages 30-31, Foods.)

## NEW POOLS

New Pools should be washed thoroughly to remove all alkali before introducing the fish. (See Pool Construction pages 6-7.)

## CARE ON RECEIPT

Upon receipt from shipping company, fishes should be given a salt bath; or better, use our Health Dip before placing them in the Pool or Aquarium. (See page 30.)

## A CHOICE COLLECTION

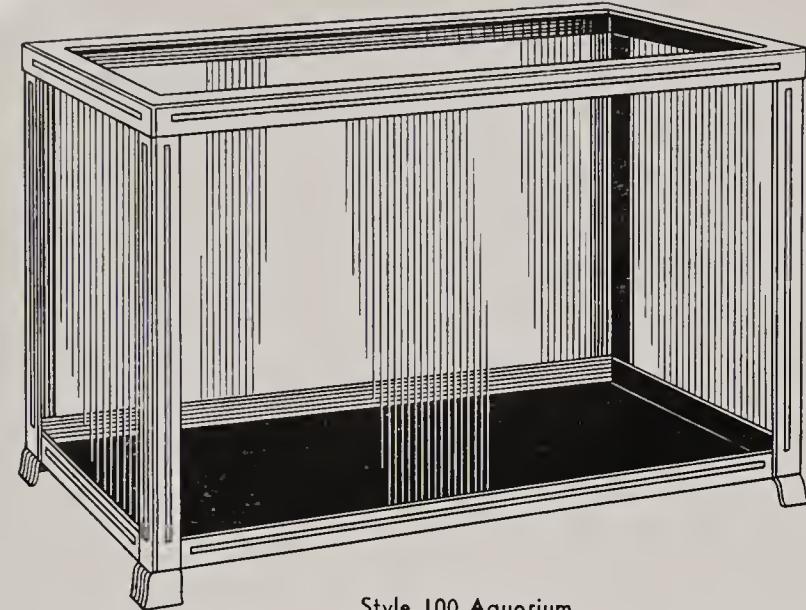
### of Goldfish for Pools

2 Pair Shubunkins .....	(4-5 inch)	\$2.00
2 Pair Jap Fans .....	(3-4 inch)	1.50
1 Pair Red Telescopes.....	(3-4 inch)	1.25
1 Pair Moors .....	(3-4 inch)	1.50
A dozen fancy fish that will add to the attractiveness of the most complete Pool.		
Collection Price, Only.....		\$4.75



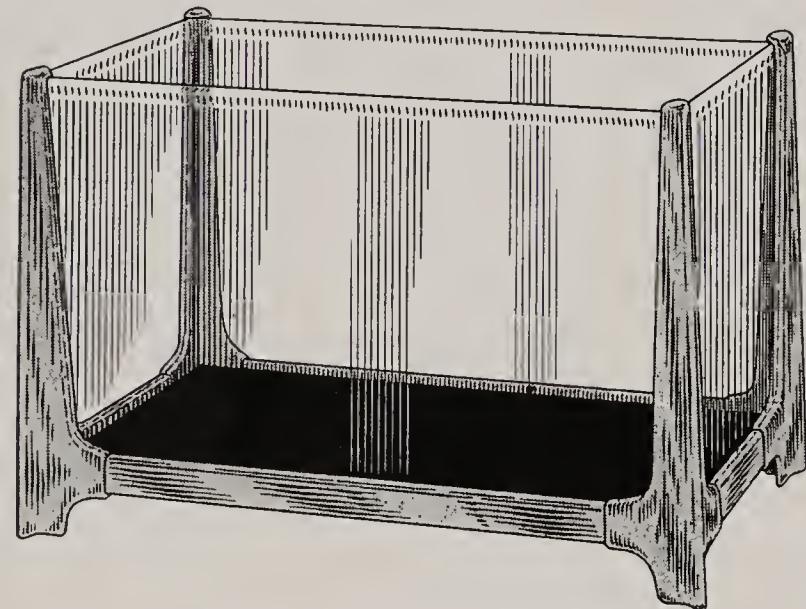
The COMETS are the speedsters of the Goldfish, their slender bodies and long, powerful fins making them extremely rapid swimmers. Fin developments vary considerably, and the so-called Ribontails are Comet Goldfish with unusually deep cleft tail fins. The illustration gives a photographically correct interpretation of variations occurring, both as to fin developments and coloring, in the shipments our customers receive.

# Aquariums and Supplies



Style 100 Aquarium

The Aquarium shown above is the economical welded steel-frame type, the frame finished in green, the crystal glass sides set in a special cement as nearly leak-proof as anything can be made. We supply this cement in convenient home-size packages for repair of breakages or other damage. (See page 31.)



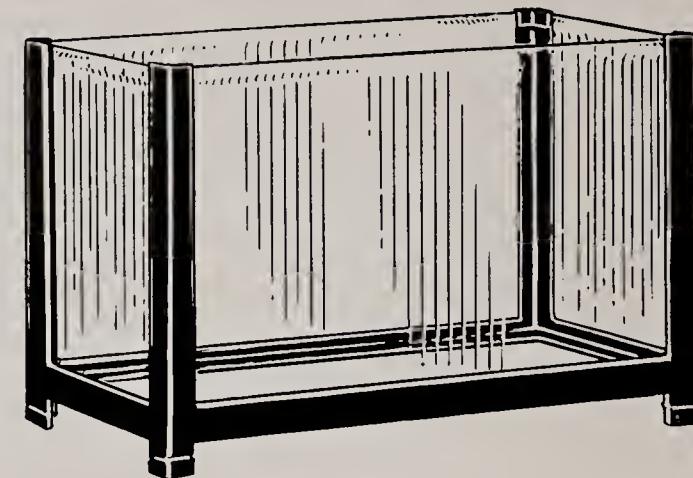
Style 900 Cast Aluminum Frame Aquarium

The cast aluminum Aquarium illustrated above is a beautifully designed and sturdy frame, without a top frame, the glass side pieces being bulb-edge glass with smooth strong edges.

EVERY Water Gardener will soon find himself desiring to preserve some of the beauties of his garden indoors throughout the winter in a suitable Aquarium. We are able to supply you the famous products of Grassyfork Fisheries, and those enthusiasts who desire a large Aquarium where an abundance of fish and Water Plants may be supported the whole year round can find a very attractive range of special selections through us. Special inquiries for such orders are solicited.

A safe rule for stocking the Aquarium with Goldfish is to have not more than *two inches of body length* for each gallon of water. Thus two very small fish each one inch long (exclusive of the tail fin) will require one gallon of water, and one four-inch fish will require two gallons of water. Select your Aquarium first of all to provide for your desires as to the number and size of fish to be kept.

The Aquariums illustrated on this page provide a wide range of sizes and qualities for your selection. We carry the largest stock of Aquariums in the country and will be pleased to answer any inquiries concerning the selection of an Aquarium or any necessary Aquarium Supplies. (See page 30.)



Style 200 Aquarium

This new popular-priced Aquarium has a steel frame without top members, the corner posts clamping the bulb-edge glass sides in place. Frame finish blue-black and green.

## PRICES OF AQUARIUMS

### Style 940—

No. 947—22x13 x14; 17-gal.....\$13.25

### Style 200—Metol Frame Aquariums. (Additional sizes made on order.)

No. 201—10x 6 x 7; 1 8 gal.....\$ 1.25

No. 202—12x 7 x 7; 2.5-gal..... 2.00

No. 203—14x 8 x10; 4.8-gal..... 3.00

No. 204—16x 9½x10; 6.5-gal..... 3.50

The above Aquariums also supplied in aluminum or chromium plate finish. Prices on request.

### Style 200-A—Covered Aquariums. (We will gladly quote on other sizes on request.)

No. 201-A—10x 6 x 7; 1.8-gal.....\$ 1.75

No. 202-A—12x 7 x 7; 2.5-gal..... 2.75

No. 203-A—14x 8 x10; 4.8-gal..... 4.00

No. 204-A—16x 9½x10; 6.5-gal..... 4.75

The above Aquariums are also supplied in aluminum and chromium plate finishes. Prices on request.

### Style 850—All Gloss Aquariums.

No. 853—9½x 7 x 7½; 2 -gal.....\$ 2.50

No. 854—9½x 6½x 8½; 2½-gal..... 3.00

No. 855—11½x 7½x 9½; 3 -gal..... 3.50

No. 856—14½x 9½x10; 5 -gal..... 5.00

No. 857—16½x11 x11; 7 -gal..... 7.00

### Style 150—Window Ledge Aquariums.

Steel frame, green lacquered, extended slate base.

No. 153—30x 8x10½; 10-gal.....\$ 7.50

### Style 950—Window Ledge Aquarium.

Aluminum frame, polished, extended slate base.

No. 953—30x8x10½; 10-gal.....\$11.25

### Style 140—Steel Frame, Green Lacquered.

With or without footings. Specify choice on order.

No. 142—16x 5¾x11; 4-gal.....\$ 2.75

### Style 900—Beautiful, polished cast aluminum frame, extra heavy bulb edge gloss.

In four sizes.

No. 901—12x 7x 8; 3-gal.

Aquarium only, \$10; with S-19 stand, \$17

No. 902—16x 9x10; 6-gal.

Aquarium only, \$14; with S-20 stand, \$22

No. 903—20x11x12; 11-gal.

Aquarium only, \$18; with S-21 stand, \$27

No. 911—30x14x16; 30-gal.

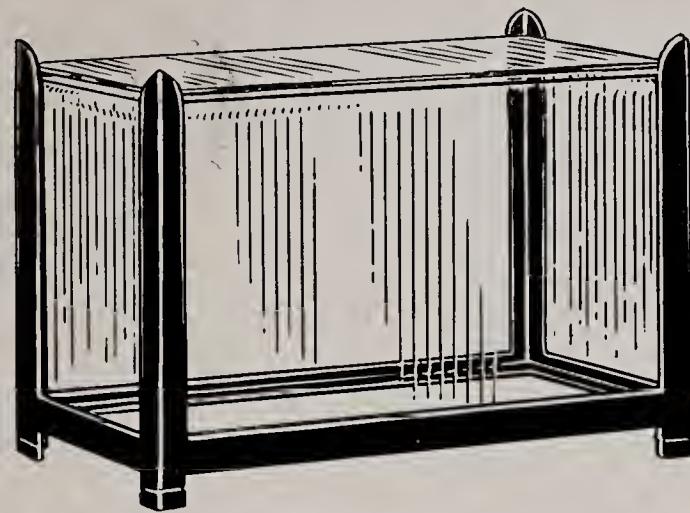
Aquarium only.....\$40

With special ornamental heavy iron stand .....

\$65

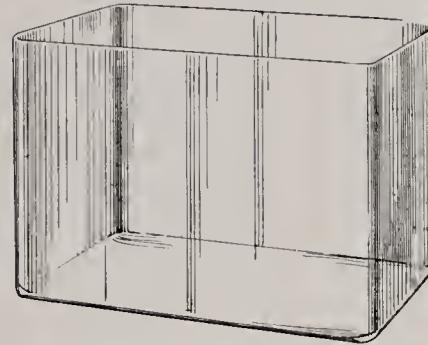
Stands are ornamental iron work (see illustration), finished in black with gold high lights and red and green decorations. For price of stands alone; deduct price of aquarium from price of aquarium with stand.

# for Indoor Displays of Fish



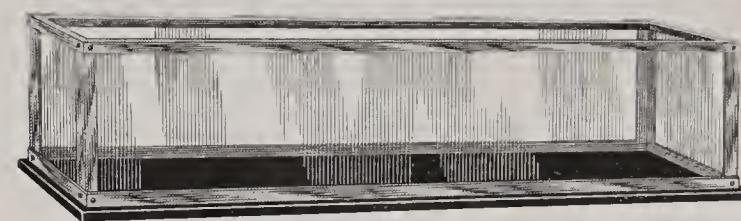
Style 200-A Aquarium

This Aquarium of the same design and finish as Style 200 has special corner posts which hold in place a glass cover, making it ideal for Tropical Toy Fish, some varieties of which often leap out of Aquariums.



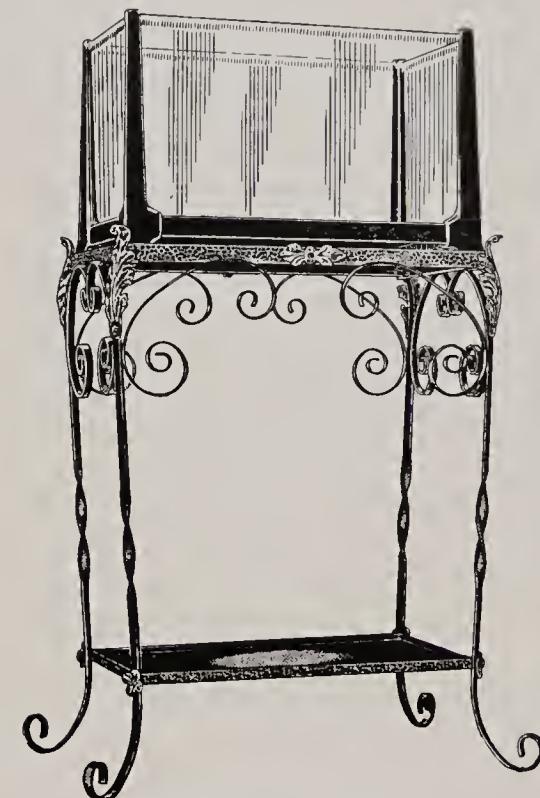
Style 850 All-Glass Aquarium

An all-glass Aquarium is superior in appearance under some conditions to any framed Aquarium, however attractive in design. We supply this crystal-glass, one-piece Aquarium in five sizes up to seven gallons capacity.



Window Ledge Aquarium

Window Ledge Aquariums are especially suitable for many interiors and the style illustrated above will fit nicely in almost any window. We supply this style with either a welded steel frame (No. 150) or a polished angle aluminum frame (No. 950).



Aquarium and Floor Stand

We supply many styles of floor stands for Aquariums, one of the most popular being the Style S-21 illustrated. This is in three sizes, Style S-19 for the 901 (3-gallon), Style S-20 for 902 (6-gallon) and Style S-21 for 903 (11-gallon) aluminum frame Aquariums.

## THE BALANCED AQUARIUM

THE TERM "balanced" is used to describe that condition in an Aquarium wherein the activities and functions of the fish are equaled by those of the plants. The Aquarium should be well planted, as the plants give off oxygen in sunlight or in good, strong light, and take in carbon dioxide which the fish exhale. Properly arranged, an Aquarium for either Goldfish or Tropical Fish need not have the water changed. Allow twenty square inches of water surface per inch of fish body for Goldfish, or two inches of body per gallon of water. When more Goldfish are kept, some water should be dipped out when they gasp at the top, and fresh, cool water added. In small Aquariums the water should be changed quite often, depending on the number and size of the Goldfish.

Tropical Fishes will do well even when crowded. They are native to warm waters wherein the oxygen content is usually very low. They therefore require little oxygen. However, their tanks should be well planted to provide a hiding place for the young. When well balanced, the water in the Aquarium need never be changed. Add for evaporation only in *balanced Goldfish tanks* and in all *Tropical tanks*.

Scavengers should be introduced into every Aquarium. Snails are particularly useful in keeping the water and glass clear. They

will also help to keep any fish food that may have fallen on the bottom cleaned up.

Should the water tend to become green, cut down the amount of direct light or sunlight the Aquarium gets each day. Very often a green condition will clear up of its own accord in a few days. This is the most desirable way to get rid of it, as it is likely to be a considerable period before that Aquarium will again become green; whereas those tanks cleared chemically or by flooding soon become green again.

FEEDING—This is an important matter for all types of fish kept in the Aquarium. We list several fish foods (see page 30), all tested by us and used for feeding our own stock. We suggest their use. Feed Goldfish every other day about as much as they will take in five minutes. If you would keep Goldfish in good condition, feed sparingly.

Feed adult Tropical Fish once a day about as much as they will eat in ten minutes. Avoid excess. Baby Tropicals should be fed two or three times a day. For the former, use our Tropic Food No. 1, for the young fish our Tropic Food No. 2. (See page 30.)

Be sure to remove all food that settles to the bottom whether Goldfish or Tropical Fish are kept in the Aquarium, as this decaying food will sour the water.



The FANTAILS are among the most attractive of Goldfish for the Water Garden, their slow, graceful swimming motions displaying the beauty of their elaborate fin developments. Japanese Fantails are those of short, plump bodies, and the American Fantails have body developments more nearly like the Common Goldfish—longer and flatter than the Japanese. Japanese Nymphs resemble the Fantails above in body shape, with less fin development.

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# Goldfish Collections

## COLLECTION OF GIANTS FOR FOUNTAIN BASIN OR LARGE POOL

2 Pair Giant Goldfish	\$8.00
1 Pair Giant Orioles	5.00
1 Pair Giant Pearls	5.00
1 Pair Giant Comets	4.00

These ten fish will make an impressive display. You will be proud to own them.

**Collection Price, Only**.....\$14.50

## UNIQUE COLLECTION

2 Pair Young Giants	\$2.00
1 Pair Giants	4.00
2 Pair Extra-Large Comets	2.00
2 Pair Extra-Large Shubunkins	4.00

Fourteen beautiful, active fish for the medium large Pool or fountain basin.

**Collection Price, Only**.....\$11.00

## HARDY COLLECTION

3 Pair Comets (3½-5-inch)	\$2.25
6 Pair Common (4-5-inch)	2.00
2 Pair Shubunkins (4-5-inch)	2.00

A good collection of hardy, active fish for the smaller pool.

**Collection Price, Only**.....\$5.25

## COLLECTION OF YOUNG GIANTS

2 Pair Young Giant Goldfish	\$3.00
2 Pair Extra Large Comets	3.00
2 Pair Extra Large Shubunkins	4.00

Develop the big ones yourself.

**Collection Price, Only**.....\$8.50

## FOR THE SMALL POOL

2 Pair Jap Fans (3-4-inch)	\$1.50
2 Pair Jap Nymphs (3-4-inch)	1.00
4 Pair Comets (3½-inch)	1.20

Eight fancy fish suitable for the small Pool or Aquarium.

**Collection Price, Only**.....\$3.00

## GOLDFISH LIST

### Select Common Goldfish

A first-class strain, exceptionally active and brilliantly colored. Unequaled for Pools or large ponds.

3-4-inch	\$1.50 per doz.; \$10 per 100
4-5-inch	\$2.00 per doz.; \$15 per 100
5-6-inch	50c per pr.; \$2.50 per doz.

### Shubunkins

A single tail variety of recent introduction. Beautifully colored in red, blue and black against a pearl background. Unusual and very striking. Excellent for Pool or Aquarium.

2½-3-inch	\$1.50 per doz.
3-4-inch	\$2.50 per doz.
5-inch	\$1 per pr.; \$3.50 per doz.

### Japanese Nymphs

Gold, black and white coloring. Very short egg-shaped bodies with large fins and broad tails. Active.

2½-3-inch	\$1.75 per doz.
3-4-inch	\$3.00 per doz.
4-5-inch	75c per pr.

### Young Giants

Strong, hardy, well-colored Giant Goldfish of medium development, ranging in size from 7 to 9 inches. Excellent for spawning.

**Price** \$1.50 per pair; \$7.50 per dozen

# at Popular Prices

## Selected Comets

Similar to Common Goldfish, but with more slender bodies, longer tail and fin development, and much greater rapidity of movement.

2½-3½-inch	\$1.75 per doz.
3½-5-inch	75c per pr.; \$3.50 per doz.
5-6-inch	\$1.00 per pr.; \$5 per doz.

## Japanese Fantails

A beautiful variety, with red-gold body, marked with black or white. The tail is double and spread fanlike, hence the name.

2½-3-inch	\$2 per doz.
3-4-inch	75c per pr.; \$3.50 per doz.
4-5-inch	\$1.00 per pr.

## Chinese Moors

A unique and exotic fish with large, protruding "telescopic" eyes, short, plump bodies and fan-like tails. Color, a dense, velvety black.

2½-inch	\$1.00 per pr.; \$4 per doz.
3-4-inch	75c per pr.; \$1.50 per pr.
4-5-inch	\$2.50 per pr.

## Chinese Red Telescopes

Like the "Chinese Moors" above, except that these fish are red in color.

2½-inch	75c per pr.; \$3.50 per doz.
3-4-inch	1.25 per pr.
4-5-inch	\$2.00 per pr.

## Giant Shubunkins

For a unique display in the larger Pool, Giant Shubunkins. 8 inches.

\$5 per pair
\$25 per dozen

## Large Japanese Fantails

Something different and just a little better. 6 inches.

\$3 per pair
\$15 per dozen

## GOLDFISH SHIPMENTS AND CARE

With every shipment of fish we send a pamphlet giving detailed instructions for their care and feeding, and for care in winter. Be sure to read the shipping instructions and terms on page 31, so that your order will be clear to us and you will be able to handle the fish shipment satisfactorily upon its arrival. Our shipments are guaranteed to you until they leave the care of the express company, so be sure that you carry out all the requirements of the express company if our fish shipments do not reach you in first-class condition.

## Giant Japanese Fantails

For an exceptional display of Goldfish, there is nothing finer. 8 inches.

\$5 per pair
\$25 per dozen

## Extra Large Comets

These Comets are 6-7 inches in length.

\$1.50 per pair
\$7 per dozen

## Extra Large Shubunkins

All the colors of the rainbow. Be sure to include a few of these 6-inch Shubunkins in your Pool Collection of fishes.

\$2 per pair
\$2 per dozen

## Giant Goldfish

These fish are selected breeding stock. Just the thing for the larger Pool. Exceptionally hardy and beautifully colored.

10-12-inch	\$4 per pr.; \$16 per doz.
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## Calico Fantails

Beautifully colored like the Shubunkins, but having the divided or "fan" tail.

2½-inch	\$1.00 per pr.; \$4 per doz.
3-4-inch	1.50 per pr.
4-5-inch	\$2.50 per pr.

## Calico Telescopes

Like the Calico Fantails; having in addition the large, protruding "telescope" eyes.

2½-inch	\$1.00 per pr.; \$4 per doz.
3-4-inch	1.50 per pr.
4-5-inch	\$2.50 per pr.

## Giant Comets

Long, slender bodies, very active.

10-inch	\$4 per pr.; \$16 per doz.
12-inch	\$5 per pr.; \$25 per doz.



CHINESE TELESCOPES and CHINESE MOORS lend variety and interest to any Goldfish group. The Telescopes are so-called because of their oddly protruding eyes. Body and fin developments range between the Fantails and the Nymphs. Moors might well be described briefly as velvety black Telescopes, their body and fin developments being quite as striking usually as the finest Fantails. Their dense, velvety black color is a striking contrast to other fish in Pool or Aquarium.

**BUBBLE-NEST BUILDERS**—Numerous families of the Toy Tropical Fishes have the interesting and remarkable habit of building nests of bubbles for protecting and hatching the eggs. Males build these nests, having unusual breathing organs with which they can draw in air at the surface of the water. A mouthful of air carried below surface is coated with a secretion and released as a bubble, hundreds of them joining loosely to form the floating nest to which the eggs adhere. The males guard the nests, repairing them with more bubbles if some break, and even driving the females away as soon as spawning is completed and sometimes killing them if they do not leave readily.

**THE GOURAMIS**—Popular among the Bubble-Nest Builders are the Gouramis, which are not moved to build their nests until the water reaches a temperature of 75 degrees Fahrenheit. When the tiny fry begin to wiggle, the male, who has guarded the nest so faithfully, must be removed if the fry are to survive, for he will quickly eat them all. If there is sufficient protection for them by having the aquarium well planted, some will manage to hide and escape from the voracious father.

The DWARF GOURAMI (*Colisa lalia*) is the most brilliant of the family, the male having a blue body marked with vertical bars of orange-red.

The CROAKING GOURAMI (*Ctenops vittatus*) gains its popular name because of its croaking when removed from the water. It is gray-green marked with gold.

The SPOTTED (or Three-Spot) GOURAMI (*Trichogaster trichopterus*) is distinguished by strong spots along the center line of the body, otherwise being quite like the Croaking Gourami in coloration.

**THE FIGHTING FISHES**—The vicious habits of the male Bubble-Nest Builders reach their height in the Bettas, which in Siam are cultivated as fighting fishes with large sums staked on the outcome of their combats. At sight of each other, two male Bettas will undergo changes of color through shades of green, red, purple and blue, and finally give battle which rages viciously until one quits. Occasionally the combat terminates fatally for the loser. A male confined by himself will show intense excitement when a mirror is placed against the side of the Aquarium.

BETTA CAMBODIA is a fairly recent addition to American Aquarium fish, and is the largest of the Bettas. Its big, flowing fins are scarlet, and the body flesh colored.

BETTA SPLENDENS and RUBRA is the most popular for the fights of the Orient, and is distinguished from Cambodia by the prismatic coloration of the body.

CORNFLOWER BLUE or BLUE BETTA (*Betta Cyana*) is one of the intermediate forms produced by breeding Cambodia with Splendens, the body and fins being of one solid color.

GREEN BETTA (*Betta Smaragdgreen*) is another of the forms produced by crossing the Cambodia and Splendens, having one solid green color through body and fins.

The PARADISE FISH (*Macropodus viridi auratus*) comes from the swampy rice fields of Africa and southeastern Asia,

# Descriptions of Toy Tropical Fishes and

with dashing colors and one of the most quarrelsome natures of all the Bubble-Nest Builders. Few Tropical Toy Fishes withstand such wide changes of temperature, Paradise Fish having survived water nearly freezing and showing little discomfort at 90 degrees Fahrenheit if the changes are not too sudden. It is for this reason rather well suited to the Water Garden Pool. The male sometimes measures more than three inches in length, and not even females can be trusted with him except when spawning. Placing a mate in his Aquarium, or even feeding him, will bring evidences of great excitement accompanied by rapid changes of color through a wide range of splendid hues.

	Per Pair	6 Only (3 Pair)	Per Doz. (6 Pair)
Dwarf Gourami	\$3.00	\$7.50	\$12.00
Three-spot or Spotted Gourami	2.50	6.00	10.00
Croaking Gourami	3.00	7.50	12.00
Paradise Fish	1.50	3.50	6.00
Betta Cambodia	2.00	5.00	9.00
Cornflower Blue or Blue Betta	2.50	6.00	10.00
Green Betta	2.00	5.00	9.00
Betta Splendens and Rubra	2.00	5.00	9.00

## LIVE BEARING VARIETIES

The PLATYS or MOONS (*Platy poecilus maculatus*) are imported from South America and Mexico, and there are half a dozen or more varieties of this popular aquarium fish. The Gold Moon is said to have originated in American aquariums, and members of this species are extremely popular because of their rich coloration and hardihood in aquarium life. The Black Moons, Red Moons, and Blue Moons are all suitable aquarium fish, and live peacefully among themselves and with other varieties. Eighteen to twenty young are produced in each brood, and a curious fact of the viviparous or live bearing fishes generally is found in this variety, the females remaining fertile until four families are born though intervals of many weeks may elapse between them. The Moons all attain a maximum length of one and a half inches.

	Per Pair	6 Only (3 Pair)	Per Doz. (6 Pair)
Gold Platys or Moons	\$1.50	\$4.00	\$7.00
Black Platys or Moons	1.50	4.00	7.00
Pure Red Platys or Moons	1.50	4.00	7.00
Blue or Green Mirror Platys or Moons	1.50	4.00	7.00

HELLERI or SWORDTAILS are most commonly seen in the variety known as the Mexican Swordtail (*Xiphophorus helleri*) which is just about as popular among aquarists as any Toy Tropical Fish. Part of the caudal or tail fin of the male is elongated into a sword like appendage, highly colored and ornamented, from which they derive their names. The female is

not only twice the size of the male, but also richly colored. Very old females take on some of the characteristics of the male and often develop the sword like tail also. Variations of the Mexican Swordtail that are popular in aquariums are the RED HELLERI, which is really a cross with the Red Moon or Red Platys, a green and blue-black hybrid with shimmering, satiny scales. Another interesting hybrid of *Helleri* is the Black Helleri, whose black scales are varied with blue scales on the head and a vivid, yellow eye.

	Per Pair	6 Only (3 Pair)	Per Doz. (6 Pair)
Mexican Swordtails		\$1.50	\$3.50
Black Helleri		3.00	7.50
Red Helleri		3.00	7.50

GUPPIES or RAINBOW FISH (*Lebistes reticulatus*) derives its popular name from a scientific name given it by an early zoologist, though its earlier zoological name survives. In its native waters around Trinidad, the Barbados and Venezuela, it is known as "the million fish" because of its great fecundity, and the brilliant coloring of the males have given it its more general popular name of "the Rainbow Fish." The greenish-gray female rarely exceeds one and a half inches in body length, and the highly-colored male an inch. The brilliant males all are different in markings, and they are extremely active, always engaged in courting or feeding. Though they live peacefully with other varieties they may prey on their own young, which usually number 25 or more in each brood. The fry seek security among dense foliage which should be provided in the aquarium for their protection.

SAILFINS (*Molliensia latipinna*) in their brilliant liveries of silver and black, are native to the waters from northern Mexico through Texas and the Carolinas, and are at home in either fresh or brackish waters. They reach lengths of nearly four inches. The high dorsal fin of the male from which they derive one of their popular names becomes a beautiful blue edged with gold and spotted with black in the mating season. The fry of this fish may number 100 at a birth and when only three-eighths of an inch long exercise their baby fins in safety before the very mouths of their parents. A very interesting hybrid of the species is the *Black Mollienisia* (*Sphenops* var.).

MOSQUITO FISH (*Gambusia affinis*) takes its popular name from its importance as a destroyer of mosquitos, for which purpose the United States Government has transported this tiny fish in huge numbers from its native waters in the swampy waters of the South Atlantic and Gulf States to many parts of the country. It is especially valuable in the water gardeners pool for this reason, and interesting in any aquarium. Next to mosquitos they seem to prefer a fish diet and eat one another along with minute algae, but they will readily accept aquarium feedings which will prevent active preying upon one another. Females greatly outnumber the males, and are about two inches

# Their Habits in Pools and Aquariums

long, twice the size of their mates. The young are born in small groups over a period of several hours, and these fish will breed almost continuously throughout the year.

AMERICAN TOP MINNOWS (*Heterandria formosa*) are, like the mosquito fish with which they often swim, great destroyers of mosquitos and sometimes bear the name Mosquito Fish, also. They are among the tiniest of the known vertebrates, the females seldom exceeding one inch in body length, the males about three-fourths of an inch at their largest. Both sexes are similarly marked. The top minnow is a distinctly American species and common to swamps from North Carolina to Florida.

	Per Pair	6 Only (3 Pair)	Per Doz. (6 Pair)
Guppies or Rainbow Fish	\$0.50	\$1.75	\$ 2.00
Sailfins	1.00	2.50	4.50
Black Mollienisa	4.00	10.00	18.00
Mosquito Fish	.50	1.25	2.00
Gambusia Affinis	.50	1.25	2.00

## OVIPAROUS (Egg-laying) FISH

### THE CICHLIDS

BRAZILIAN HALF-MOON (*Pterophyllum scalare*): This aristocrat of the pygmies is a native of South American rivers and is characterized by a grave and dignified bearing. It is sometimes called the fresh-water Angel Fish. The ground color is silver touched with yellow, and its name scalare (from scalaris, a ladder) comes from the strong, even banding of body and fins. Half-Moons, a name derived from the shapes of the fins, subsist on small floating plants, *Daphniae* and prepared fish foods. On the sides of the aquarium or on broad leave grasses like *sagittaria*, the female lays rows of minute eggs, which hatch in a few days after devoted care by both parents, which also care for the young attentively until they begin to swim after a week, when they must be protected or the parents will eat them. The parents will spawn each two or three weeks.

HEROS SPURIOS (*Cichlasoma Severum*) is an interesting member of the cichlid family distinguished chiefly by its fins, which are both striped and dotted.

CHAETODON is very similar to the Angel Fish or Brazilian Half-Moon, though it has not nearly the fin development, and perhaps because the Half-Moon formerly was so very expensive to aquarists it is sometimes called the "poor man Angel Fish."

HEMICROMIS BIMACULATUS (*Jewel Fish*): One of the most beautiful cichlids particularly at spawning time. A gorgeous red body having a darker toned band through the center interspersed with rows of glistening, jewel-like spots. Spawns freely on stony bottoms.

	Per Pair	6 Only (3 Pair)	Per Doz. (6 Pair)
Cichlasoma Nigrofasciatum	\$3.00	\$7.50	\$10.00
Cichlasoma Severum	3.50	9.00	15.00
Chaetodon	2.00	5.00	9.00
Pterophyllum Scalare (Angel Fish)	3.00	7.50	12.00
Selected Angel Fish	5.00	10.00	18.00
Jewel Fish	2.00	5.00	9.00

### THE CHARACIN FISHES

TETRA VON RIO (*Hyphessobrycon flammatus*) is one of a species of Toy Tropical Fishes which shows such numerous variations that they have puzzled ichthyologists attempting to classify them. Natives of Mexican and Central American waters, little is as yet known of their habits. Even the number of scales and fin rays vary greatly in different varieties, and other singular changes occur with age, sex, season, food and water temperatures. All of them are distinguished, however, by a unique adipose fin, a tiny additional dorsal fin near the tail, which is always present.

TETRA VON BUENOS AIRES (*Hemigrammus caudovittatus*) is another of the Tetras, of a greenish color with red fins.

COPPER SPOT TETRA (*Hemigrammus ocellifer*) is distinguished by a copper spot at the base of the spine.

The SILVER TETRA (*Ctenobrycon spilurus*) is a hardy species, native to the rivers of Dutch Guiana, Paraguay, the Amazon River and other South American waters, and is an ideal aquarium fish. The young sometimes number 500 at a single spawning, and make rapid growth after the first two weeks. Both sexes have a golden iris flecked with red, and an iridescent body marked with blue.

PRISTELLA (*Pristella riddlei*), native to the waters of British Guiana and some other South American rivers, has a short, deep body and is of variable coloration. The young of Pristella are rather difficult to rear in aquariums, surviving only in quite shallow water.

BLOOD FIN (*Aphyocharax rubripinnis*) has silvery pearl scales and blood red fins.

	Per Pair	6 Only (3 Pair)	Per Doz. (6 Pair)
Tetra Von Rio	\$1.50	\$4.00	\$ 7.00
Ctenobrycon Spilurus	1.50	4.00	7.00
Tetra Van Buenos Aires	1.50	4.00	7.00
Pristella Riddlei	3.00	7.50	12.00
Copper Spot Tetra	3.00	7.50	12.00
Blood Fin	3.00	7.50	12.00

### THE CYPRINODONTIDAE

The Cyprinodont pygmies are principally derived from natives of India and Africa, and present many variations as they are produced for the pleasure of the home aquarium or garden pool.

JORDANELLA FLORIDAE, sometimes called the Flag Fish, is a tiny colorful specimen of the Cyprinodont group.

GOLDEN FUNDULUS (*Fundulus Chrysotis*): A beautiful native tropical-color tones, a warm olive green overlaid with irregular, iridescent, golden spots.

FUNDULUS NOTTI (*Florida Zelua Fish*): A most desirable aquarium fish native to our Southeastern states. Hardy and of mild temperament.

FUNDULUS HETEROCLITUS—One of our most popular native killifishes suitable for aquarium use. Very hardy; easy to keep. A beautiful iridescent body with alternating light and dark bands.

	Per Pair	6 Only (3 Pair)	Per Doz. (6 Pair)
Jordanella Flaridae	...	\$0.75	\$1.50
Fundulus Chrysotis	...	1.00	2.50
Fundulus Notti	...	1.00	2.50
Fundulus Heteroclitus	...	1.00	2.50

DANIOS are among the favorite aquarium fishes of the Toy Tropicals, occurring in several well marked varieties. The so-called ZEBRA FISH (*Danio Brachydanio Rerio*) gets its popular name from its zebra-like stripings extending from the gills through the caudal or tail fins. It is the smallest of the Danios, averaging about one and one-half inches in body length. *Danio Malabaricus*, often called the GIANT DANIO, is the largest of the variety, often attaining a length of three inches. It is considered by most aquarists the most beautiful of the Danios, having a blue body with lateral stripes of salmon-yellow. *Danio albolineatus*, popularly called the PEARL DANIO, is a beautiful aquarium species of this variety with iridescent mother of pearl and opal coloration. The non-adhesive eggs of the Danios fall to the bottom of the water and hatch among the pebbles and vegetation, but in an aquarium they are quickly eaten by the parents unless protected from them.

THE BARBS, like many other varieties of Toy Tropical Fishes, occur in several species, the fry of all of which are quite easily reared in the aquarium. The variety is native to the waters of India. The Barbs live peacefully among themselves and with other fish. The ROSY BARB (*Barbus Conchonius*) is largest of the Barbs, all of which are distinguished by their large scales. *Barbus Oligolepis* with red and silver markings and fins bordered with black is so iridescent that it is sometimes called the IRIDESCENT BARB, though variations in its coloring are toward gray-greens and grass-greens, so that it is sometimes called the Green Barb, also. *Barbus Semifasciolatus* (STRIPED BARB) is a striped member of this variety. All the Barbs spawn through the summer, the adhesive eggs sticking to vegetation on which they fall.

	Per Pair	6 Only (3 pair)	Per Doz. (6 pair)
Zebra Fish	...	\$1.00	\$2.50
Pearl Danio	1.50	3.50	6.00
Giant Danio	2.00	5.00	9.00
Iridescent Barb	2.00	5.00	8.00
Rosy Barb	1.00	2.50	4.00
Striped Barb	1.25	3.25	5.00



GIANT DANIO  
TETRA VON RIO  
COPPER-SPOT TETRA

ROSY BARB  
RED PLATY

These popular Tropical Toy Fishes are illustrated in pairs as they appear when well lighted so that their brilliant colors are revealed. This illustration represents our IDEAL COLLECTION.

# Toy Tropical Fish for and Aquariums . . .

EXPLORATION of the waters of the world has in the last few decades brought discoveries of many tiny, colorful fish, chiefly from tropical waters, that can be reared in pools and aquariums. Amazing, brilliant coloring; body shapes from the beautiful to the fantastic; and living habits of never-ending variety and interest which seem to illustrate in vivid detail many of the characteristic moods and behaviors of human beings, make these brilliant, astonishing creatures commonly known as Tropical Fish the most fascinating specialties for the water gardener and aquariast. More than 600 varieties of pool and aquarium pygmies are known to the zoologist. We supply half a hundred of the most interesting and ornamental of this enormous selection, and attempt to illustrate most of them in these pages. It is difficult to put upon paper by any process the colorations of these amazing creatures, and impossible to represent the sheen and iridescence common to them all.

Most of the Tropical Fish require water temperatures of 70 to 80 degrees. Some of them can be kept in the outdoor pool only during the hottest season; and the aquariast may well find it necessary to supply a source of heating

even for the indoor aquarium. This is so simple and economical, however, that many thousands of American homes are enjoying the delightful tropical aquarium.

With each shipment of Tropical Fish we supply free a pamphlet of instructions for their care. Toy Tropical Fish usually breed freely, even in the indoor aquarium. Some of them reproduce as do Goldfish, spawning their eggs in convenient grasses or roots where the sunshine will warm and hatch them. Some of the spawners build their own nests in a curious

## IDEAL COLLECTION of Toy Tropicals

An ideal assortment of Toy Tropical Fishes for a ten gallon aquarium. Ten beautiful Tropicals (5 pair), both live-bearing and egg-laying types, that afford a choice happy family Collection.

1 pr. Giant Danio .....	\$2.00
1 pr. Tetra von Rio.....	1.50
1 pr. Copper Spot Tetra .....	3.00
1 pr. Rosy Barb .....	1.00
1 pr. Red Platy .....	1.50
	50.00
Collection Price, only.....	\$7.25

# Water Gardens, Pools

manner by blowing bubbles in which the eggs are floated at the surface of the water. Some of the Tropical Fish carry their eggs in their mouths to incubate them, and are commonly called mouth breeders; and the newly hatched young use the mother's mouth as a refuge from danger and a resting place until they are ready to shift for themselves. Other varieties of Tropical Fish are viviparous, or live-bearing.

Some varieties of the Toy Tropical Fishes are vicious fighters, and must be separated by species in the aquarium. Indeed in a few varieties the males will even attack the females except when spawning. The other varieties will live peaceably among themselves in aquariums.

The habits of all these varieties are briefly described on pages 26 and 27. In this list we give the usual popular names of the varieties

followed in parenthesis by the scientific zoological names.

**CONDITION OF SALES:** Toy Tropical Fish are shipped in ordinary cans from June 1 to October 1. Add 50 cents to remittances for can cost. No returns. Winter shipments (Oct. 1 to June 1) are made in special Thermos cans for which a deposit of \$2.00 is required, to be refunded upon prepaid return of Thermos can; express cost 20c.

## HARMONY COLLECTION

Suitable for a 10-gallon aquarium. Five distinct types of fish that will live peaceably together making an harmonious, happy family collection.

1 pr. Helleri (Swordtails) .....	\$1.50
1 pr. Scalare (Angel Fish).....	3.00
1 pr. Black Platy (Moons) .....	1.50
1 pr. Danio rerio (Zebra Fish).....	1.00
1 pr. Tetra von Buenos Aires ( <i>Hemigrammus caudovittatus</i> )..	1.50
12 Selected Aquarium Plants.....	1.50
	\$10.00
<b>Collection Price</b> .....	<b>\$8.50</b>

Every Aquarium to be kept in proper order and balance and insure healthy active fish should have the Aquarium plants included with our Harmony Collection of Toy Tropicals. We select twelve choice aquarium plants in variety sufficient to plant and balance a ten to twelve-gallon aquarium.

For the accommodation of the Harmony Collection of Tropical Fish and Plants we recommend our 11-gallon, Style 903, Cast Aluminum Aquarium. This Aquarium will blend harmoniously with any decorating scheme. A sturdy well-built article having a polished cast aluminum frame, heavy bulb edge glass, heavy processed glass bottom and guaranteed workmanship. (See illustration page 22.)

No. 903—11 gallon.....\$18.00  
With ornamental Iron Stand .....

For those wishing a less expensive Aquarium we suggest our Style 150 Window Ledge Aquarium—10-gallon—\$7.50. (See page 23.)



**BLACK PLATY  
SCALARE  
TETRA VON BUENOS AIRES**

**HELLERI (Mexican Swordtail)  
DANIO RERIO (Zebra Fish)**

The brilliant coloration and incessant activity of Tropical Toy Fish is a constant delight in the aquarium or garden pool. This illustration shows our HARMONY COLLECTION.

# Amphibia and Snails

Snails, Turtles, Salamanders, Fresh Water Clams or Mussels and like amphibian creatures are not only oddly interesting, but also perform diligently the task of keeping the pool or aquarium free from decaying or other foreign matter, algae, and green scum, keeping the water at that crystal clearness so much desired.

NOTE: Shipping cans are required for Tadpoles and Weather Fish. All other scavengers may be shipped in damp moss. When fish and scavengers are both included in the order, scavengers will be shipped in container with the fish whenever possible. On orders of \$2 or less, INCLUDE 25 cents for postage and packing.

**JAPANESE LIVE-BEARING SNAILS**—One of the best scavengers for Pool or Aquarium. Large, live-bearing, active, hardy. 50c for three; \$1.50 per dozen; \$10 per 100.

**BLACK RAMSHORN SNAILS**—Having a shell curled like a Ram's horn. A medium size egg-laying Snail. Very active and prolific. 25c for three; 75c per dozen; \$5 per 100.

**RED OR CORAL SNAILS**—Shells shaped like Black Ramshorn. A beautiful coral-red Snail. Perhaps the finest Snail for Aquarium use. Active, and prolific egg-layers. Why not raise a few in the pool for your Aquarium next winter? 50c for three; \$1.75 per dozen.

**MELANTHO or TRUMPET SNAILS**—Active and hardy scavengers with spiral shells. 25c for three; 75c per dozen; \$5 per 100.

**GEOGRAPHIC TURTLES**—Tiny, interesting aquatic animals, with curious mosaic designs on upper and lower shells. Provide a board or rock on which they may sun themselves until the lily pads are large enough to hold them. 50c for two, \$2.50 per dozen.

**TADPOLES**—Young of the green pond frog before the legs have developed. Will in no way injure fish or plants. Excellent for devouring decaying plant and other foreign matter, green scum, etc. 75c per dozen; \$5 per 100. Shipping cans, 50c each.

**GREEN FROGS**—Where there are lily pads, one expects to find green frogs. Interesting, and a good insect trap, too. 75c per pair; \$3 per dozen.

**AMERICAN SALAMANDERS**—These harmless Water Newts, like the frogs, are unsurpassed insect traps. Beautifully colored, the back streaked red with black dots on a gold-brown field; under side yellow, spotted brown. 50c for three; \$1.50 per dozen.

**JAPANESE SALAMANDERS**—Like the above but larger, with black backs and fire-red vests. 50c for two; \$2.50 per dozen.

**CLAMS or FRESH Water Mussels**—Valuable in extracting the plant growth that turns pool or aquarium water green. They act as a filter, taking in large quantities of green water and ejecting it crystal clear. 50c for three; \$1.50 per dozen.

**WEATHER FISH**—An excellent scavenger and cultivator of aquatic plants, this curious eel-like fish takes sand into its mouth and blows it out through the gills, extracting all decaying plant and animal matter in the process. Very useful in the aquarium. \$1.50 per pair; \$7.50 per dozen. Shipping cans, 50c each.

## COLLECTIONS SMALL POOL

6 Japanese Snails	6 Black Ramshorn Snails
12 Tadpoles	2 Clams
2 American Salamanders	

Collection, with shipping can, \$2

## POPULAR SIZE POOL

12 Tadpoles	4 Clams
12 Black Ramshorn Snails	4 Green Frogs
6 Japanese Snails	2 Salamanders

Collection, with shipping can, \$3.50

## LARGE POOL

24 Tadpoles	6 Salamanders
24 Black Ramshorn Snails	12 Japanese Snails
6 Clams	6 Green Frogs

Collection, with shipping can, \$5

# Fish Foods and

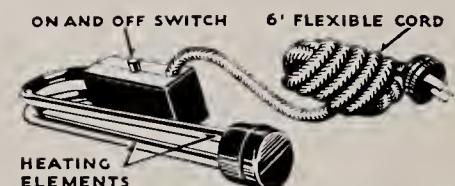
On Orders of \$2.00 Value or Less Add

**AUTOMATIC GLASS SYPHONS**—Self-starting; will drain bowl or aquarium completely. Indispensable for removing sediment. \$1 each.

**FEEDING RINGS**—Rings of glass tubing. Prevents food spreading over the surface of the aquarium. 50c for three.

**FLOATING FEEDING TRAYS**, to prevent food from sinking to bottom of aquarium, or for feeding white worms, each 25c.

**ALL-GLASS BREEDING TRAPS**, excellent for saving young fish. Suspend from sides of aquarium by glass lip. Each, 50c; three for \$1.25.



**WESTINGHOUSE AUTOMATIC AQUARIUM HEATER**—An indestructible heating unit controlled by the famous built-in Watchman Thermostat. This heater will maintain a mean temperature of 80 degrees Fahrenheit for all aquariums of from four to thirty gallons capacities. It is finished in heavy, rust-proof chromium plate, and is 75 watts, 110 volts capacity. Complete heater, including thermostat switch and cord, each \$6.95.

**DRIED DAPHNIAE**—Specially dried carcasses of the water flea, Daphniae, an excellent food for young and adult fishes, and the best substitute for living Daphniae, often difficult to obtain. \$0.20 a box, \$1 a pint.

## REMEDIES

**HEALTH DIP**—Keep your fish in first class condition. Use Health Dip in the aquarium occasionally as a preventative against fungus, tail rot, etc. 25c per box.

**FUNGUS CURE**—For definite cases of fungus, frayed fins, and general run-down condition. 25c per box.

## SUPPLIES

**NETS**—Fish should never be handled. Use a net when transferring them. 4-inch, wood handle, 15c each; 6-inch, wood handle, a strong net for large goldfish, 25c each; 3-inch gauze nets for handling Toy Tropicals, each 10c.

**"CHILL-BREAKER" Heaters**—Keep the temperature right and avoid trouble. 25-watt for 10-gal. or less; 40-watt for 15 to 35-gal.; 75-watt for 35 to 55-gal., all capacities \$2 each.

**THERMO CUT-OUT**—A thermostat designed for control of "Chill-Breaker" and all other heaters, and will serve well for controlling any regular aquarium-heating device, each \$1.75.

# Aquarium Supplies

25 Cents for Postage and Packing

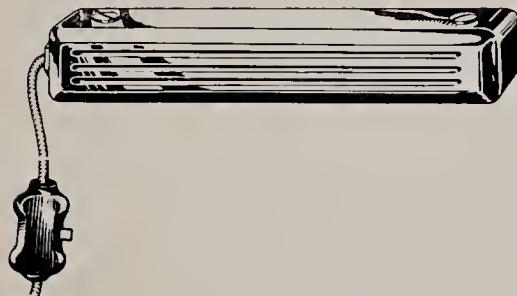
CHAMBERS AQUARIUM WATER-TESTING KIT, a handy, practical equipment for testing and controlling aquarium water, each \$2.

THERMOMETERS—Five-inch wine-spirit floating Fahrenheit thermometers, each 50c; three for \$1.25.

CHEMICAL SHELLS—Molded like sea shells. Act as water purifiers; neutralizing excess acids or alkalis and as an aid in destroying fish disease germs and green scum. 10c each.

AQUARIUM GRIT—A pure, white, clean sand of proper coarseness for aquarium use. Especially useful for rooting aquatic plants. 5-lb. bag, 30c; 10-lb. bag, 50c; 25-lb. bag, \$1.

SEAL-TITE AQUARIUM CEMENT—For best results, aquarium cement should be mixed with the proper grade of oil in the right proportion. The proper amount of especially prepared oil is included with each package of SEAL-TITE powder. One pound per carton, each 75c.



AQUARIUM LIGHT—Your aquarium will be more enjoyable if well lighted by this convenient chromium plated aquarium light which attaches by suction cups at any place on sides or ends and is easily adjusted to throw light to the best advantage through aquarium plants and ornaments. Each only \$3.

PRINTED IN U.S.A.

SEAL-TITE READY MIX—All the excellent features of SEAL-TITE Cement, without the bother of mixing. Remains plastic and is unexcelled for quick repairs of breaks or leaks in aquariums. One pound carton, \$1.



Spa Filter and Purifier

End your aquarium troubles due to impure natural water or city supply over charged with chlorine and other chemicals by using the new Spa water filter and purifier. Made of strong cast aluminum stainless alloy. No tools needed. Anyone can install it. Just slip it over the faucet.

Spa Filter and Purifier, Complete.....\$7.50

POOL NET—The net you have been looking for—5 ft. long, light weight, varnished handle; heavy galvanized wire frame for net, 8 inches square, fastened to handle so it can't come loose. Heavy regular fishing netting of  $\frac{1}{4}$ -inch mesh with six inch sag ample for even the largest fishes. A practical and inexpensive large net for working about the pool; to remove dead leaves that may blow in from surrounding shrubbery; also, for handling fish for breeding purposes or when removing them in the fall. Suitable mesh for all Goldfish and the larger Tropicals, each \$1.50.

# Conditions of Sales

Inclosed with this catalog are convenient order blanks which will assist you in obtaining prompt and correct shipments of any Water Plants, Ornamental Fish or other supplies you may desire. We wish to render a service to you of the same high quality as the plants or other supplies you will receive from us. Your assistance is needed to the extent of reading the necessary terms and conditions following, and supplying with your order all the information required to enable us to fill your order properly.

**TERMS:** Please send funds sufficient to cover price of goods ordered, 50 cents for shipping can when fish are included with the order and postage charges to the amount of 10 per cent. of your order when shipment is requested by parcel post. Payment may be made by check, draft, Post Office money order, Express money order. When cash is sent the letter should be registered. We do not ship C. O. D. Order early. Orders are shipped at the proper planting time for your locality in the order received. Early ordering will insure prompt delivery as soon as your planting season begins.

**CANADIAN SHIPMENTS:** Canadian customers must obtain a permit to import plants from the Destructive Insect and Pest Act Advising Board, Dept. of Agriculture, Ottawa. Enclose permit number only.

**FORWARDING:** We prefer to ship Express Collect. All fish ordered must go by express. Other items are shipped by Parcel Post only when specifically requested and funds to cover postage (see Terms) are included with remittance.

**CLAIMS:** Inspect your order before express agent leaves. If shipment is not in good condition, have him make out a bad order Report No. 679 and return it to us at once. All claims or complaints must be made within 10 days of accepting goods. We reserve the right to replace any merchandise considered unsatisfactory. We do not assume responsibility for goods after receipt in good condition. Due to conditions over which we have no control, unfavorable weather or soil, improper planting, etc., we cannot guarantee success after planting.

**ERRORS:** Experienced packers handle all your orders. In the press of business, however, errors may occur. In such case we wish to be promptly informed of the fact, that we may make such corrections as will be satisfactory. Please keep copies of all your orders for comparison.

**NAME and ADDRESS:** Please write on each order your Name, Post Office, County, and State, Street, P. O. Box or R. F. D. Route; your nearest Express Office.

## AN OFFER FOR PHOTOGRAPHS

Send us a photograph of your Water Garden (Pool, Tub Garden, or Pond). We are interested in the success you have made of water gardening. Others doubtless are, too. To all sending us photographs found suitable for display either in our catalogs or other advertising matter, we shall be pleased to present one of the best Blue or Pink Tropical Water Lilies.



ORTYPE CORP. OF  
IND. ANAPOLIS, IND. AND

HOOSIER AQUATIC GARDENS  
MARTINSVILLE, INDIANA

# HOOSIER AQUATIC GARDENS

HARDY AND TENDER  
WATERLILIES

P. O. BOX M

AQUATICS, GOLDFISH,  
AQUARIUMS AND SUPPLIES

MARTINSVILLE, INDIANA

February 22, 1933.

Chas. E.F. Gersdorff  
1825 North Capitol Street  
Washington, D. C.

Dear Sir:

The catalog you requested has been mailed under separate cover. Your special wholesale prices are as follows:

Hardy Lilies (10 tubers or more)	20% Discount
Tropical Lilies (10 tubers or more)	10% "
Tropical Fish (50 or more)	25% from Doz price
Aquariums (6 or more), Fish Foods, (1 Doz. or more) and all other supplies such as Heaters, Dip Nets, etc. - Write for special prices.	
Goldfish (50 to 100)	50% Discount
Goldfish (100 or more) - Write for special prices, stating quantities, sizes and varieties wanted.	
Moss, Bog Plants, Perrenials, etc. (For quantity purchase) - Write for special prices, stating quantities wanted.	

If you care to do so you may work under our dealers' cooperative plan whereby you take orders from your customers and send same to us under the terms and conditions outlined in our catalog. We will then send the items direct to your customer, and send you a check for ten percent of the amount of the order. In this way you have no transportation or handling charges, no expense in carrying a stock, and no losses or cash outlay of any kind. In other words, you will be our agent or representative and we will back you 100% on all your sales. Merely send the order and check-payable to "Hoosier Aquatic Gardens", Martinsville, Indiana.

In case you have requests for catalogs or literature, write us, or refer the individual to us, and we will send them whatever they request. A very limited supply of catalogs make it necessary for us to send but one catalog to a customer, so be sure the catalog we send you is kept for your exclusive use. If they write us direct, be sure you have them mention your name, so we will send you a check for ten percent (10%) of whatever they might order from us in the future. There is no limit to the sales possibilities in this line as it is very much in demand and you are privileged to solicit from whatever territory you choose.

Yours very truly,

HOOSIER AQUATIC GARDENS,

*R. Baird*

AB:DD

